

20000330.qrp v01\_n776.qrl.20000330

Date: Thu, 30 Mar 2000 19:03:06 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1776

## QRP-L Digest 1776

Topics covered in this issue include:

- 1) [66804] Re: DANGEROUS STUFF!!!!  
by KF4YYD@aol.com
- 2) [66805] RE: Learning CW: Was Soundcard problem?  
by Monte Stark <ku7y@dri.edu>
- 3) [66806] schematic needed  
by david slade <dslade1@twcnny.rr.com>
- 4) [66807] [OT] Best way to get funds across W/VE border?  
by "K3GM" <k3gm@home.com>
- 5) [66808] NEW PRODUCT ANNOUNCEMENT: EC2 Enclosure  
by Wayne Burdick <n6kr@elecraft.com>
- 6) [66809] FS or Trade OHR 500  
by "Kelly Ellison" <kelman@dialnet.net>
- 7) [66810] ZS1AGI BEACON  
by cx8at@adinet.com.uy
- 8) [66811] Yaesu FT-747GX delay control & other questions  
by Rick McKee <kc8aon@juno.com>
- 9) [66812] RE: Dangerous stuff!!  
by W1REX@aol.com
- 10) [66813] Audio Filter Thread (long and revised)  
by "James R. Duffey" <jamesd1@flash.net>
- 11) [66814] ZS1AGI BEACON  
by Joel Malman <malman@world.std.com>
- 12) [66815] QRQ Net Practice Sentences.  
by Ed Loranger <we6w@qsl.net>
- 13) [66816] Re: DANGEROUS STUFF!!!!  
by Ray Colbert <af852@rgfn.epcc.edu>
- 14) [66817] FS: LDG QRP tuner  
by "Bill Johnson" <b11john@msn.com>
- 15) [66818] Chuck Adams has had his "repair" work done, doing fine  
by PDouglas12@aol.com
- 16) [66819] [OT] Best way to get funds across W/VE border?  
by "K3GM" <k3gm@home.com>
- 17) [66820] DSW-30 does it again...DX  
by N10DL@aol.com
- 18) [66821] CMOS 3 and LK3 Keyers  
by "Marshall Emm" <mgemm@mttechnologies.com>
- 19) [66822] Re: Chuck Adams has had his "repair" work done, doing fine

by Tom Isgro <k8cz@concentric.net>  
20) [66823] Re: [OT] Best way to get funds across W/VE border?  
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
21) [66824] hotel qrp  
by Fran Flynn <fflynn@together.net>  
22) [66825] Re: HB: Ammonium Persulfate  
by "Leon Heller" <leon\_heller@hotmail.com>  
23) [66826] 30m QRP freq?  
by aa5yx@juno.com  
24) [66827] Public vs private responses. (was Best way to get finds accross W/VE border)  
by joe lerch <joelerch@earthlink.net>  
25) [66828] Re: Ammonium Persulfate  
by "Ted Williams" <tedw@btinternet.com>  
26) [66829] Re: Atlanticon Photo Album  
by "Donny" <dsirait@centrin.net.id>  
27) [66830] Re: Chuck Adams has had his "repair" work done, doing fine  
by "Francis Callahan" <colcal@srv.net>  
28) [66831] Re: [Elecraft] Power corrupts  
by "Jim Barrett - KC2DCC" <jbarrett@stny.rr.com>  
29) [66832] Re: 30m QRP freq?  
by "Steve Yates, AA5TB" <aa5tb@swbell.net>  
30) [66833] Re: ZS1AGI BEACON  
by Bruce Rattray <rattray@gpfn.sk.ca>  
31) [66834] Re: Chuck Adams has had his "repair" work done, doing fine  
by Bruce Rattray <rattray@gpfn.sk.ca>  
32) [66835] Fw: Public vs private responses. (was Best way to get finds accross W/VE border)  
by "Walt Amos" <k8cv@worldspy.net>  
33) [66836] SUMMARY: Spider Antenna  
by Jay Freeman <jayFreem@direcpc.com>  
34) [66837] QRP Get-together at Glacier Hamfest  
by Bruce Rattray <rattray@gpfn.sk.ca>  
35) [66838] Re: [OT] Best way to get funds across W/VE border?  
by "Mike Yetsko" <myetsko@insydesw.com>  
36) [66839] RE: Dangerous stuff!!  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
37) [66840] hammarlund  
by Gordon <gordon@znet.groupz.net>  
38) [66841] NorCal sierra variable cap question  
by "Craig A. Ferris" <cferris@aeronix.com>  
39) [66842] Board Etching Techniques  
by "Cla KA0GKC" <ka0gkc@arrl.net>  
40) [66843] RE: Board Etching Techniques  
by "AI2Q Alex" <ai2q@ispchannel.com>  
41) [66844] Re: 30m QRP freq?  
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>  
42) [66845] Fw: Public vs private responses. (was Best way to get finds accross

W/VE border)

by Ray Colbert <af852@rgfn.epcc.edu>

43) [66846] Re: Board Etching Techniques

by "Dieter \ (Diz\ ) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>

44) [66847] Re: Public vs private responses. (was Best way to get finds accross W/VE border)

by "Mike Yetsko" <myetsko@insydesw.com>

45) [66848] Re: 30m QRP freq?

by aa5yx@juno.com

46) [66849] Re: NEQRP meeting <this> weekend

by "Hare, Ed, W1RFI" <w1rfi@arrl.org>

47) [66850] RE: hammarlund

by "Ed Tanton" <n4xy@att.net>

48) [66851] Mini Quad

by rxd7@po.cwru.edu (Richard A. Dell)

49) [66852] Re: Board Etching Techniques

by "Leon Heller" <leon\_heller@hotmail.com>

50) [66853] Poll on QRZ.COM

by "Ed Tanton" <n4xy@att.net>

51) [66854] Re: ZS1AGI BEACON

by Dean W Manley <kh6b@juno.com>

52) [66855] =?iso-8859-1?Q?O.T.\_=97\_CW\_for\_hearing\_impaired?=>

by "Chuck Carpenter" <w5usj@globeco.net>

53) [66856] Re: =?iso-8859-1?Q?O.T.\_=97\_CW\_for\_hearing\_impaired?=>

by Chris Cartwright Sr <ccart@phideaux.com>

54) [66857] Re: O.T. =?iso-8859-1?Q?=97?= CW for hearing impaired

by "George T. Baker" <w5yr@att.net>

55) [66858] RE: O.T. ? CW for hearing impaired

by "Everhart, Joseph @ CSE" <jeverhar@mail.cse.1-3com.com>

56) [66859] OT: Poll on QRZ.COM

by "Mike Yetsko" <myetsko@insydesw.com>

57) [66860] possible 10 meter interference

by M Goins <mgoins@usa.net>

58) [66861] =?iso-8859-1?Q?Re:\_O.T.\_-CW\_for\_hearing\_impaired?=>

by "Mike Yetsko" <myetsko@insydesw.com>

59) [66862] [OT] Best way to get funds accross W/VE border?

by "Brad Hernlem" <alihernlem@hotmail.com>

60) [66863] Re: possible 10 meter interference

by Roger Hightower <n7kt@worldnet.att.net>

61) [66864] RE: O.T. ? CW for hearing impaired

by "Hare, Ed, W1RFI" <w1rfi@arrl.org>

62) [66865] Re: possible 10 meter interference

by Curt Milton <wb8yyy@yahoo.com>

63) [66866] Re: possible 10 meter interference

by "George T. Baker" <w5yr@att.net>

64) [66867] Re: Poll on QRZ.COM

by KD1YV <kd1yv@mindspring.com>

65) [66868] Chuck Adams progress report

by PDouglas12@aol.com

66) [66869] Not 'zackly QRP but  
by Marv Fagenson <k6hcj@juno.com>

67) [66870] RE: Poll on QRZ.COM  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>

68) [66871] Re: Not 'zackly QRP but  
by "John J. McDonough" <wb8rcr@arrl.net>

69) [66872] Re: Not 'zackly QRP but  
by "Mark Hogan" <mhogan@email.msn.com>

70) [66873] Re: Not 'zackly QRP but  
by Ray Colbert <af852@rgfn.epcc.edu>

71) [66874] Re: Not 'zackly QRP but  
by "Rod, N0RC" <n0rc@qsl.net>

72) [66875] Post Atlanticon Building Plans  
by "Rod, N0RC" <n0rc@qsl.net>

73) [66876] Re: Poll on QRZ.COM  
by "Mike Yetsko" <myetsko@insydesw.com>

74) [66877] Call Book Info  
by Marv Fagenson <k6hcj@juno.com>

75) [66878] RE: Soundcard problem?  
by "Hubert Smits" <hubert.smits@wxns.nl>

76) [66879] Re: Poll on QRZ.COM  
by "Mike Yetsko" <myetsko@insydesw.com>

77) [66880] QRP Contest Calendar - April 2000  
by Ken Newman <N2CQ@citnet.com>

78) [66881] RE: Poll on QRZ.COM  
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>

79) [66882] FS COMPUTER POQET PC PLUS  
by "DONALD G. DORN" <DDORN@CWIS.NET>

80) [66883] FRG-7 (was: [Toronto] Freebie)  
by Laura Halliday <va3ldh@sympatico.ca>

81) [66884] Mini Quad-Thanks  
by rxd7@po.cwru.edu (Richard A. Dell)

82) [66885] Keycaps and LED's  
by Roger Hightower <n7kt@worldnet.att.net>

83) [66886] Re: [OT] Best way to get funds across W/VE border?  
by Gary Newberry <Gdn1@rocketmail.com>

84) [66887] POQET PC PLUS  
by "DONALD G. DORN" <DDORN@CWIS.NET>

85) [66888] [COMPUTER] Logging software  
by Joel Malman <malman@world.std.com>

86) [66889] 38 Special question  
by Allan G Taylor <agtaylor@llnl.gov>

87) [66890] Re: DANGEROUS STUFF!!!!  
by K2UD@aol.com

88) [66891] Who has good enclosures for qrp stuff.  
by "Randall" <Firefox@Southwind.net>

89) [66892] RE: Soundcard problem?

- by "Hubert Smits" <hubert.smits@wxs.nl>
- 90) [66893] Re: Post Atlanticon Building Plans  
by "George Heron N2APB" <n2apb@erols.com>
- 91) [66894] The missing Q signals by John Queen,  
=?iso-8859-1?Q?KA=D8SEY?= & Mike Colyar, K7ITL  
by Rick McKee <kc8aon@juno.com>
- 92) [66895] Re: Who has good enclosures for qrp stuff.  
by "Michael A. Newell" <wb4huc@texas.net>
- 93) [66896] Dick, WD8ISB "Mini Quad" URL address PLEASE...!!  
by "Andy GM0NWI" <Gm0nwi@tesco.net>
- 94) [66897] Re: possible 10 meter interference  
by K2UD@aol.com

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Date: Wed, 29 Mar 2000 19:11:16 EST  
From: KF4YYD@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66804] Re: DANGEROUS STUFF!!!!  
Message-ID: <66.244a06d.2613f5a4@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Ammonium Persulfate should be OK to use as long as you treat it like any other chemical, ie wear protective equipment and try not to inhale or ingest it. It is a fairly good oxidizer with a PH of about 1.5 - 2.0 (I think) I would imagine that it might need some other chemical to work with it though, as once it oxidized the top layer of copper what would it have left to react with. The mercuric chloride probably is used to strip the oxide layer allowing it to start the process over. Anyone have any thoughts on this???

Tom KF4YYD

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Date: Wed, 29 Mar 2000 16:33:00 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: Hubert Smits <hubert.smits@wxs.nl>  
Cc: jwodell@ameritech.net, w5yr@att.net, qrp-l@Lehigh.EDU  
Subject: [66805] RE: Learning CW: Was Soundcard problem?  
Message-ID: <Pine.GSO.4.10.10003291618030.3101-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Mar 2000, Hubert Smits wrote:

>

> Now my question. My main problem now is concentration and physical

> tiredness. As long as I can keep my mind to morse code listening I can  
> decode almost flawless. Some characters are harder (e.g. adding "I" was more  
> difficult than adding "." to my morse-vocabulary) but after 2 or 3 listening  
> sessions I can write the heard characters from reflex. This totally changes  
> when being tired or not able to concentrate. My mind just wanders to other  
> things like a building project, work etc.

Hi Hubert,

I'll include the others in the reply so they can see how  
I think. Some might not agree! :-)

What you are seeing is very normal. And a bit hard to control.

But again, it's back to the basics...

Like most things in life we sometimes just can't keep our  
mind on track all the time.

I'd suggest a couple of things:

First, take a SHORT break. Think about that project or whatever  
is coming to mind. Maybe make some notes about it so that your  
mind now sees no reason to think about it!

Then go back to the CW.

Turn the speed up or down. (I always like to error on the high  
side when doing something like this.)

Try something different. Listen to stations on the radio if  
you can. Sometimes just doing this puts a little more excitement  
into it and helps you to concentrate.

And always remember to not force things. This one is a bit hard  
to grasp at times because I always say to "reach out" a little  
bit and work hard. But at the same time I say to not force things  
but rather just let them happen.

I have no idea how to really explain that. You want to work hard  
so that you feel good about what you have done while at the same  
time not beating yourself up.

Each one of us has his or her own level that we can handle.

Keep pushing as high and hard as you can while still having FUN.

Make up little goals to keep it FUN. If it becomes just work,  
do something else. Make it FUN.

It is hard for your mind to wander if your are having FUN! :-)

Keep up the good work.

And always remember that there is no magic method. And we all  
went throgh the same kinds of things.

But like the Good Book says, This too shall pass. :-)

OK, back in my hole.

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

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Date: Wed, 29 Mar 2000 19:54:47 -0500  
From: david slade <dslade1@twcnny.rr.com>  
To: qrp-l@Lehigh.EDU  
Subject: [66806] schematic needed  
Message-ID: <38E2A5D7.457FB867@twcnny.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Gang,

I'm looking for a schematic of a Radio shack power supply , a  
Samlex RPS 1210 .....If anyone could scan me a copy , i'd  
appreciate it ..Please e-mail direct....

73, Dave, k2SJB                dslade1@twcnny.rr.com

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Date: Wed, 29 Mar 2000 20:04:13 -0500  
From: "K3GM" <k3gm@home.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [66807] [OT] Best way to get funds across W/VE border?  
Message-ID: <011901bf99e3\$dd0ce920\$246e0c18@adubn1.nj.home.com>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Sorry for the OT question, but I'm trying to get some form of payment to a friend in VE land for equipment he's selling to me. I initially sent a US Postal Money Order, but I didn't read the fine print, and it was promptly rejected by his Post Office. I don't want to send cash for obvious reasons, and a personal check is too slow. Is there some form of International Money Order, or bank money order I can use? How 'bout a cashiers check, or bank check? Thanks.....Tom K3GM

-----  
Date: Wed, 29 Mar 2000 17:12:14 -0800  
From: Wayne Burdick <n6kr@elecraft.com>  
To: elecraft@qth.net, qrp-1@lehigh.edu  
Subject: [66808] NEW PRODUCT ANNOUNCEMENT: EC2 Enclosure  
Message-ID: <v03102876b50852eb684d@[206.169.248.162]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

We have had many requests for a custom enclosure the same size as the K2. We're pleased to announce that this product is now available: the Elecraft EC2.

The EC2 is painted to match the K2, and uses the same versatile, multi-panel construction. In addition to the cabinet itself, you can purchase a matching tilt stand, or use the supplied rubber feet. Either way, the EC2 can add a professional touch to your next project--antenna tuner, power supply, station control console, amplifier--you name it. We'll be offering additional EC-series enclosures in the future.

Orders for the EC2 are now being accepted, with first shipments planned for mid-April. Prices can be found below, and these items have also been added to our web-based order form.

73,  
Wayne, N6KR  
Eric, WA6HHQ

\* \* \*

EC2 Enclosure

\$59



This all-aluminum, 6-panel, 3"(H) x 7.8"(W) x 8.3"(D) enclosure is finished to match the K2 transceiver. Any panel can be removed for easy access, simplifying drilling, cutting and labeling. PC boards of your own design can be mounted on the front, bottom, sides or top. Includes four adhesive-backed feet, ten 2-D chassis fasteners, and extra screws. Matching tilt stand sold separately.

ETS2 Tilt Stand	\$9.50
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This is the same instrument-quality, 5" wide tilt stand used on the K2. Includes rear feet and all mounting hardware.

Date: Wed, 29 Mar 2000 19:32:26 -0600  
From: "Kelly Ellison" <kelman@dialnet.net>  
To: <qrp-1@Lehigh.edu>  
Subject: [66809] FS or Trade OHR 500  
Message-ID: <010d01bf99e7\$d62c8440\$9fc9e0d8@pavilion>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Nice Oak Hills Research OHR-500

I have a OHR500 5 band QRP radio for trade. This is a desk top radio, not a portable rig... and has some nice features... such as built in keyer, Power output control on the front panel and a tune/operate switch...Including a AF CW filter. It is a CW radio for 15,20,30,40 and 80 meters. This radio is fairly new, and in good condition. Would consider trades of other QRP equipment of equal value. Would like to trade for a Argosy or will sell outright So I can get a K2. I will be at ArkieCon if you would like to see it there. Please Contact me for more information. If I sell the OHR500, I may have more QRP equipment FS.

Kelly Ellison - WB0WQS QRP-1#702.

Date: Wed, 29 Mar 2000 22:34:50 -0300  
From: cx8at@adinet.com.uy

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66810] ZS1AGI BEACON  
Message-ID: <38E2AF3A.F05479DC@adinet.com.uy>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi everybody

Does anyone in the list know the ZS1AGI power output?  
i've been hearing with my DSW-40 for almost two weeks that beacon on  
7.025Mhz from Montevideo ( 8000km far away), and i found in "the G3USF's  
Worldwide List of HF Beacons" that its power seems to be 200mw.  
Sometimes its rst is really very good to be true.

Al, CX8AT/qrp

-----  
Date: Wed, 29 Mar 2000 20:46:51 EST  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-1@Lehigh.EDU  
Subject: [66811] Yaesu FT-747GX delay control & other questions  
Message-ID: <20000329.204702.7503.0.kc8aon@juno.com>

Gang,

Did not get a manual with my Yaesu FT-747GX, was wondering if someone  
could tell me how to adjust the delay control for CW operation ? The rig  
appears to be semi break in and the delay is a little to long to suit me.

I plan on using this one both for QRP and QRO operation both in the  
field and at home ( I plan on doing the QRP mod to it that allows you to  
adjust the output power in SSB mode from the front panel drive control ).

Also, if someone could tell me where the internal power control is that  
would also be of help, I plan on setting the max power to about 50 watts  
out. One more question, on the back panel there are 3 controls for  
carrier for the USB, LSB & CW, please explain their purpose if possible.

73...Rick McKee KC8AON { CW lives as long as I do ! }  
Willow Wood,Ohio "oo's"  
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33  
TriState BrassPounders # 1

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YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
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<http://dl.www.juno.com/get/tagj>.

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Date: Wed, 29 Mar 2000 21:02:46 EST  
From: W1REX@aol.com  
To: qrp-1@lehigh.edu  
Subject: [66812] RE: Dangerous stuff!!  
Message-ID: <15.24d6eb0.26140fc6@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hello HB:qrp multitudes,

As per the discussion on using ammonium persulfate as an etchant, I prefer it to ferric oxide because it does not turn everything it comes in contact with cruddy red. I DID/DO wear gloves but FC still always found some way to turn my hands cruddy red! Ammonium persulfate is a VERY good oxidizer (hence the explosive warnings). It does require a slightly raised etch temperature (110 degrees I think) and a catalyst ( yes its toxic so USE CAUTION!) to give a clean etch. Using it plain, without catalyst, will greatly increase the etch time creating crappy boards....a very thin layer of copper in direct contact with the resist will be protected but the etchant has more time to eat into the underneath layer and then up and around towards the resist. I made many a crappy board when the effectiveness of the ammonium persulfate and/or catalyst had diminished with age. Ammonium persulfate mixed as an etchant has a batch life of about 3 weeks and catalyst needs to be added as more and more copper is taken up into the etchant solution. I purchase my board and catalyst supplies directly from Kepro, the circuit board people.

Another note of warning....although ammonium persulfate etchant is rather benign on equipment, benchtop and hands...it loves to eat holes in cotton. I am sitting here typing this note in a pair of jeans & one of my favorite shirts that got a little too close to the stuff and now looks like I have a colony of rabid moths in my closet.

Ammonium persulfate has another advantage over ferric chloride. My board holders, pump shafts, hose hardware and misc nuts and bolts in my Kepro etch tank are all stainless steel which doesn't last too long in a tank full of ferric chloride.....lasts forever; however, in a tank full of ammonium persulfate. I have a motley collection of eaten up pumps etc under the bench from the days of ferric chloride.

If anyone needs more info on the subject or just want to chat about prototype boardmaking ( I've been at it about 15 years), feel free to private

E.

72,

W1REX Rex Harper .....The Tin/Copperman

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Date: Wed, 29 Mar 2000 19:09:11 -0700  
From: "James R. Duffey" <jamesd1@flash.net>  
To: caljsi@aol.com  
Cc: qrp-1@lehigh.edu, SMurph555@aol.com  
Subject: [66813] Audio Filter Thread (long and revised)  
Message-ID: <200003300209.UAA24297@bunyip.flash.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

Cal - You asked:

"Also, does anyone remember a thread on QRP-L that compared various audio filters? If so, could you let me know about that, please?"

Thomas, AC7A, who knows much more about analog audio filters than I do and I had a short interchange on QRP-L about audio filters several months ago. As part of that thread I posted my impression on several audio filters that I own or have used. Since I posted that "review" I have acquired a new filter, the Timewave 9, so I have updated the post and repost it below. If you want the rest of the exchange I have saved it and can forward it to you.

#### Review of Various Commercial Audio Filters

The recent discussion of active filters reminded me that I have been putting off posting my comments on some commercial outboard CW filters I have been using recently.

With the widespread introduction and adoption of DSP filters by Hams, older outboard active filters are widely available at cheap prices at most Ham Fest

Swapmeets. With many commercial rigs including built in DSP many outboard DSP filters are also becoming available at reasonable prices. I started buying these "obsolete filters" a couple of years ago and have a collection of several. I thought you might be interested in my

comments on them.

#### Timewave 9

This is my favorite audio filter. I bought mine for \$50 and have seen them at up to \$75. It is an excellent value at these prices. The filter features frequency bandwidths of 100, 200 and 500 Hz for CW at center frequencies of 600 Hz and 700 Hz or (selectable with internal jumpers) 400 Hz and 500 Hz. Adaptive noise reduction is available and can be switched on or off. On voice, bandwidths of 1.8, 2.4, and 3.1 kHz or (selectable with internal jumpers) 1.6, 2.1, and 2.4kHz. The adaptive noise reduction is available as well in voice mode, as is a automatic notch filter.

The filter skirts are very sharp. Signals 50 Hz off the edge are inaudible. There is no ringing. The noise reduction works well, but is a little aggressive for my taste. It is not noticeable on CW, but voice signals sound like someone is talking at the end of a hall when the noise reduction is in use. None the less, it can make signals at the noise level quite audible. CW signals heard with the 100 Hz filter and noise reduction turned on sound like a keyed sine wave oscillator. It sounds more like a code practice oscillator or computer generated code than off the air code.

There is little if any evidence of the digital nature of the processor in modes other than the noise reduction. There is no detectable noise or digital artifacts. It is "clean".

The filter has built in AGC. The filtering seems most effective when the AGC in the rig is turned off. The internal amplifier is good quality. There is no provision for bypassing the filter when it is turned off.

The filter is a joy to use on CW. It is very effective at dealing with pileups and the 100 Hz position is great in fox hunts.

I do not like the fixed center frequencies as I like to copy CW at 550 Hz and I would like the amount of adaptive noise reduction to be variable, but these are not major problems in my opinion.

The Timewave has displaced the DaTong as my favorite filter, but it is not the best choice for a filter for the digital modes as it does not have variable center frequencies.

The filter requires a 12 VDC supply. At a 1 Ampere current requirement it is not a filter for the field.

#### Radio Shack DSP

Radio Shack introduced these about 5 years ago at \$85. While they had a CW

position to appeal to Hams, they were aimed at CBers. CBers didn't buy them and Radio Shack closed them out at steeper and steeper discounts, \$45, \$35, and the final few went out the door at \$25. These are usually available at \$20 to \$30 at swap meets. I think they represent a good value at that price. I paid \$20 for mine.

The Radio Shack is a bare bones digital signal processor. It provides frequency selectivity and an automatic notch filter (in the SSB positions) only. There is no noise reduction function despite the switch label. In the NR position the SSB filters have a higher bass cut and lower treble cut which makes most voices sound funny, but does little to reduce the noise.

The filter skirts are steep and effective in eliminating off channel interference. The CW filters are centered at 700 Hz. Since I prefer a lower note, I have problems using it at the narrowest setting. The filter imparts a slightly raspy undertone to both CW and SSB. It is more objectionable to me on CW. I must admit I used the filter for many months and thought it was good. Then I got the DaTong (see below) and found out how good studio quality could be in a steep filter. If you are into voice the automatic notch filter is very good. It makes 40 M at night an entirely different band. The amplifier and speaker sound very good when the filter is switched out. The speaker is better than that built into most rigs. At \$20 this is probably a good buy just for the amplifier and speaker!

It is not a Timewave or NIR, but it is a good introduction to DSP. It is the ideal companion for an older, inexpensive rig such as the HTX-100 that has minimal filtering built in. I use it with my HTX-100 and 2 meter multimode rig.

I think that these filters have an undeservedly poor reputation in many

quarters. I know an excellent op who loves his and leaves it connected in the mid CW position all the time. They are not state of the art DSP, but they are very useful in many applications. I must admit I think less of this filter after using the Timewave 9.

The DSP requires an external 12 VDC supply to run which means it can be used portable. It draws an amp or so though so it is not very "field friendly".

#### DaTong FL-3

This has to be one of the high points of analog design in amateur radio. It has an automatic notch filter implemented in analog circuitry, separately adjustable high and low pass filters, two different peak functions, a manual notch function, and the ability to put the notch in the middle of the peak function for RTTY use. Built in England, it originally sold for between \$200 and \$300. They appear at swapmeets for between \$40 and \$60. They are an excellent value at this price. I paid \$35 for mine. The FL-2 is similar, but does not have the automatic notch function.

Since I originally wrote this, the Timewave has displaced the DaTong as my favorite filter. However, there are still circumstances when I prefer the DaTong. In particular data modes are much better on the DaTong as it has much more adjustability than does the Timewave. It is nearly infinitely adjustable and has excellent audio quality. The audio amplifier is only capable of driving headphones though, so if you like speaker audio an external amplifier and speaker are necessary. The Radio Shack DSP is good for this purpose. :^)

The filters are 5 pole elliptic and bandwidths down to 100 Hz are easily obtained with little objectionable ringing. The notch is steep and effective. The automatic notch feature is as quick as that on the Radio Shack and Timewave DSP, but it only handles one heterodyne at a time.

The filter requires external 12 V and is useful for portable use.

It is hard to say anything bad about this filter. I love mine and am tempted to get another one.

#### Autek QF-1

This is a simple barebones audio filter. Built in the 70s it sold for \$75 or so. They were soon replaced by the QF-1A (see below); a much different filter than the adding of an "A" would indicate. They are not too common at Hamfests. I paid \$8 for mine. The seller was asking \$10. I consider it a good value at that price. It has peak, notch, and lowpass functions. The frequency and selectivity are separately adjustable.

This is a simple filter to operate and use. It is capable of bandwidths as narrow as 75 Hz before ringing becomes a significant problem. The filters are 4 pole I believe. The ringing at narrow bandwidths, while not bad, is not as good as the DaTong. This filter has a headphone output, so an external amplifier is necessary to use it with a speaker.

I leave this filter connected to my OHR Classic when using it in the shack. Although it could be used on voice I have not done so since the DaTong is much better for voice.

This is a good, basic, easy to operate filter.

The filter is AC powered and there is no provision for external DC power. The QF-1 off switch does not bypass the filter, so when it is turned off you don't get any audio at the output.

Autek QF-1A

This is a different filter than the QF-1. Sold for \$100 from the late 70s through the early 90s, it is fairly common at swapmeets. They sell for \$20 to \$40. At \$20 they are a good buy, but at the higher end of the range I would avoid them. I paid \$20 for mine.

To the QF-1A, Autek added a high pass function and an auxillary manual notch filter. They also labeled the selectivity and frequency knobs with frequencies, but this does not make the filter easier to operate.

The filter has similar performance to the QF-1. I find it a bit more confusing to operate though. I have operated it in tandem with the QF-1 using the QF-1A as a high pass filter and the QF-1 as a low pass filter



to  
get a bandpass function with variable low and high cuts. While  
cumbersome,  
the two together provide effective filtering.

The filter is AC powered. No provision is made for driving a speaker.  
Autek  
provided a hole in the back panel for an external DC connector and  
provided  
instructions for hooking up external power in the instructions. Thus it  
could be made to work in a portable situation.

Of all my filters I use this one the least. It is not a bad filter. I  
think  
that the extra functions that I do not use put me off somehow. KISS. :^)

The off switch bypasses the filter so unfiltered audio can be heard when  
the  
filter is off.

Both of my Auteks have some AC hum. I don't know if this is inherent in  
the  
design or if I have a ground loop that I need to pay attention to. The  
manual suggests using a resistor in series with the headphones to reduce  
the hum, but I have not tried this "fix". Others have also told me about  
hum problems.

#### EG&G 114 Signal Conditioning Amplifier

This is not an amateur piece of gear, but a commercial piece of test  
equipment designed for precise measurements. It has both low and high  
pass  
filters separately adjustable from 10 Hz to 100 kHz in 1,3,10 steps. The  
input modules are changeable. I only have a 50 Ohm differential input  
module. The gain is variable from 1 to 10,000. It has 50 Ohm and 600 Ohm  
outputs. I paid \$5 for it in a test gear auction. I am sure it sold for  
\$500  
to \$1000 when new.

This filter is not designed for amateur use, but with the high pass  
filter  
set for 300 Hz and the low pass set for 1000 Hz it makes a nice CW  
filter  
and with the low pass set for 3000 Hz it makes a nice voice filter.

The filter is AC operated and quite big; twice the size of my OHR  
Classic.  
Definitely not for portable use.

I put this in to let you know that equipment not designed for Ham radio use can be quite useful. Similar amplifier/filters are also made by Khron-Hite, Beckman, and Ithaco. If you work for a high tech company you might survey the surplus list for similar amp/filter combinations. They are very useful as CW filters. I spent more on adapters for the BNC connectors than I did on the filter.

MFJ

In the 70s MFJ made several inexpensive CW active filters with selectable bandwidths of 80 Hz, 120 Hz and 180 Hz (?). At one time you could buy a bare board version. MFJ sold scads of these. Before I became interested in active filters I used to see them at nearly every hamfest I went to. Now that I am looking for one I have not seen one in several years! These should be inexpensive. I used one when they were first brought out and recall it as being effective. I would like to have one to compare to my other filters. I think it operated with a 9 V battery so it would be nice for portable use.

I have since acquired a partial kit version of this filter. I have not completed the kit, but will post the results as I get them.

OHR

OHR made a switched capacitor filter, the SCAF-20 (?), until National Semiconductor stopped making the MF-8 chip it used. I don't have one, but I used one that Roger Hightower had at the 4 corners event. It is a bandpass filter only, but has selectable bandwidths. I recall it being easy to use with no perceptible digital noise or artifacts. These should be available for near the price OHR sold them for, \$50, and represent a good value at that price.

I hope that these thoughts are useful. Use them at the next swapmeet you go to.- Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5  
30 Casa Loma Road  
Cedar Crest, NM 87008

-----  
Date: Wed, 29 Mar 2000 21:15:21 -0500 (EST)  
From: Joel Malman <malman@world.std.com>  
To: qrp-l@Lehigh.EDU  
Cc: k1qm@world.std.com  
Subject: [66814] ZS1AGI BEACON  
Message-ID: <200003300215.VAA03539@world.std.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Folks,

Speaking of beacons ... Anyone know what happened to the Russian C, S, etc beacon on 7039.5 ??? It seems to have been down for about 4 months now.

72 ... joel

--

/joel K1QM (K1 Queen Mary) Concord, Massachusetts  
QRP-L #337, QRP-ARCI #9305, MI-QRP #1641, SOC #42

-----  
Date: Wed, 29 Mar 2000 18:17:33 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>  
Subject: [66815] QRQ Net Practice Sentences.  
Message-ID: <38E2B93C.B03A4B60@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Gang, here's the QRQ Practice sentences for this week:

Oh, the net will still be 7:00 PM Pacific time, but we start Daylight Savings time so the UTC time is now 0200Z. I know many of you need that due to always on standard time in your location.

Remember, this Sunday is 1 Hour forward here, so remember it is 0200Z start time, not 0300Z start time.

So: QRQ Net, 7039 KHz, Sunday, 7 PM Pacific, <0200Z Monday>.

- #1. Protect SO-239 connectors with inexpensive plastic champagne bottle caps.
- #2. The ARRL antenna tuner has the balun at the input.
- #3. Complete Chebyshev and elliptic filter tables are in the handbook.

Keep it going with the paractice and for you listeners -- Enjoy!

72/Ed we6w

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
Brain, only as strong as its weakest think.

-----  
Date: Wed, 29 Mar 2000 19:24:56 -0700  
From: Ray Colbert <af852@rgfn.epcc.edu>  
To: qrp-l@lehigh.edu  
Subject: [66816] Re: DANGEROUS STUFF!!!!  
Message-ID: <38E2BAF8.EC04576D@rgfn.epcc.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I used the ammonium persulfate (my container was marked aluminum persulfate) many years ago, in LA, when making boards and never had any problems. It stored nicely, just made a warm solution and kept the liquid moving under a heat lamp and no problems. Ferric Chloride was the other popular etchant and it could do the job, but would leave ugly brown stains if sloshed on the wrong material. Not good for sinks, etc. The only storage problem I had with the persulfate was it would harden in the container and the clumps would have to be broken in to bits then dissolved.

73

Ray

--

"The more I see of the representatives of the people,  
the more I admire my dogs."

letter from Count d'Orsay to John Foster 1850

-----  
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
(also w5xe@juno.com)ARRL VE, El Paso,(FAR WEST) TEXAS

-----  
Date: Wed, 29 Mar 2000 20:35:49 -0600  
From: "Bill Johnson" <b1ljohn@msn.com>  
To: "QRP-l Low power Discussion" <qrp-l@Lehigh.EDU>  
Subject: [66817] FS: LDG QRP tuner  
Message-ID: <NDBBJDEJGLHEFFJMFCLGOEEHCHAA.b1ljohn@msn.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have for sale, in superb condition, the tuner, in the case and with  
manual. Works great but is collecting dust. \$115. PLEASE RESPOND DIRECTLY

72,

Bill  
K9YEQ  
b1ljohn@msn.com  
MNQRP Club  
K-2 (FT #35), Rainbow Tuner, LDG QRP Auto tuner, Norcal Paddle

-----  
Date: Wed, 29 Mar 2000 21:37:57 EST  
From: PDouglas12@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66818] Chuck Adams has had his "repair" work done, doing fine  
Message-ID: <8c.21d6b19.26141805@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Gang,

I've heard from Phyllis Adams, Chuck's wife. He's had his procedure, and is

doing fine. He will be in hospital for about a week while they watch him. I'll keep you posted, though it wouldn't surprise me if Chuck didn't post something soon himself!

72,

Preston WJ2V

-----  
Date: Wed, 29 Mar 2000 22:04:48 -0500  
From: "K3GM" <k3gm@home.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66819] [OT] Best way to get funds across W/VE border?  
Message-ID: <020001bf99f4\$b5849c20\$246e0c18@adubn1.nj.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all who responded. I have gotten lots of suggestions, and should be able to get any one of them to work. Great ideas, all.  
Thanks.....Tom K3GM

-----  
Date: Wed, 29 Mar 2000 23:23:54 EST  
From: N10DL@aol.com  
To: qrp-1@lehigh.edu  
Subject: [66820] DSW-30 does it again...DX  
Message-ID: <78.3474771.261430da@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Got on the air tonight to try for my "one a day" QSO and heard OE5GR0 calling CQ on 10.118. Gave it a try and he came right back to me. Georg, located near Salzberg, Austria. This is a new country for me. Boy am I pleased with my DSW. We had a very nice chat but he had to QRT to go to work. This works out to 1,964 Miles Per Watt.(big GRIN)  
Now if I could only do this on my Tuna Tin 2 at 600Mw.  
Off to bed now....  
Aron  
Bedford, NH  
N10DL/qrp  
QRP-L#1326 FISTS#4110 SOC#10 G-QRP#9946....

-----  
Date: Wed, 29 Mar 2000 21:42:03 -0700  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: QRP-L@lehigh.edu  
Subject: [66821] CMOS 3 and LK3 Keyers  
Message-ID: <200003300438.VAA08483@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Doug did an excellent job of reviewing these keyers and I'm grateful for the mention here on QRP-L. Since I sell them my endorsement is probably not worth much, but it is in fact the keyer of choice in my shack. Some very successful Fox runs would not have been possible without it.

Anyhow, my reason for writing is to point out the differences between the CMOS III kit and the assembled LogiKey K-3. Doug is correct that all the LK3 adds is support for negative keying, but there are major differences beyond that one additional feature. It's on a different a larger board, and all of the controls and jacks except for the speed pot are board mounted. There is a 4" speaker in the bottom of it, and it is a very tidy, fully commercial unit. It is important, I think, to note that it is not just a "built CMOS III," and conversely the CMOS III is not an unassembled LK3.

It's only fair to tell you that you can probably save a few dollars by buying the LK3 from AES. I'd like your business, of course, but in fact I only sell the LK3 because that was a condition of making the CMOS III kit available. The kit is only available from Morse Express, or by mail order direct from Idiom.

I should also point out that we sell another "super keyer," Joe Lunsford's Super Keyer III. It is very comparable to the LK3 in operating features but adds direct RS232 connection for your computer, and remote operation. Also some might prefer the keypad interface, which is very reminiscent of the AEA keyers. Unfortunately, that one is not available as a kit.

The direct page reference for the Idiom products is <http://www.MorseX.com/idiom> and you can see a picture of my CMOS III, installed in my "CW Command Post" at <http://www.cqc.org/library/cp.htm> .

Marshall Emm, N1FN  
Milestone Technologies, Inc.  
(303) 752-3382  
<http://www.mtechnologies.com>

-----  
Date: Wed, 29 Mar 2000 23:49:32 -0500  
From: Tom Isgro <k8cz@concentric.net>  
To: PDouglas12@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66822] Re: Chuck Adams has had his "repair" work done, doing fine  
Message-ID: <38E2DCDC.7A9F15DA@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

PDouglas12@aol.com wrote:

>  
> Gang,  
>  
> I've heard from Phyllis Adams, Chuck's wife. He's had his procedure, and is  
> doing fine. He will be in hospital for about a week while they watch him.  
> I'll keep you posted, though it wouldn't surprise me if Chuck didn't post  
> something soon himself!  
>  
> 72,  
>  
> Preston WJ2V

Good to hear!

--  
72, 73 oo's  
Tom K8CZ Hamilton, OH  
FPqrp #-41, QRP-1 945, FISTS 2360, NORCAL 2113, ARCI 9606,  
10-10 68364, SCI 1479, ARS 203, ARRL

-----  
Date: Thu, 30 Mar 2000 15:11:33 +1000  
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66823] Re: [OT] Best way to get funds across W/VE border?  
Message-ID: <38E2E205.57606E04@integritynet.com.au>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

K3GM wrote:



> Thanks to all who responded. I have gotten lots of suggestions, and should  
> be able to get any one of them to work. Great ideas, all.

Tom, could you share those ideas as this is a particularly vexing problem for international dealings.

As an example I am due to receive a check for \$US25.00 which roughly equates to \$A40.00. My bank will then charge me \$8.00 to cash it.

The problem seems interminable for relatively small sums of money and no way will I use a credit card on the www. I've seen too many horror stories of fraud on some of the e-commerce lists I subscribe to. The hackers have a field day.

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E  
My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>  
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"  
URL - <http://www.integritynet.com.au/~purdic/>

-----  
Date: Thu, 30 Mar 2000 00:35:36 -0500  
From: Fran Flynn <[fflynn@together.net](mailto:fflynn@together.net)>  
To: qrp-l Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [66824] hotel qrp  
Message-ID: <38E2E7A8.FCF9268B@together.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have a room in Circus-circus for NAB, don't know which floor. I can bring along my Sierra with modules for 40, 15, 12 and 10 meters. I also have a 2m ht. In part, this is an announcement in case other qpr'ers are going to NAB, the other part is, has anyone stayed at C-C and what can I do for antennas while there? Is there a sliding door to a balcony from which to dangle wires?

= Fran Km1z =

-----

Date: Wed, 29 Mar 2000 23:31:04 PST  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: alihernlem@hotmail.com, qrp-l@Lehigh.EDU  
Subject: [66825] Re: HB: Ammonium Persulfate  
Message-ID: <20000330073104.20237.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

>  
>Anyone here have experience etching PC boards with ammonium persulfate? I  
>received some from a friend but have not tried it out. According to the old  
>ARRL handbooks one needs an activator (mercuric chloride) but I noticed in  
>the local electronics store that it is sold without activator.

I used it many years ago. Common salt (NaCl) works OK as an activator. It is a very good etchant, but it can only be used once for best results, and doesn't keep very well once mixed. Chlorine gas is given off in the reaction with the activator, so you need good ventilation. It's difficult to get hold of here in the UK, so I use ferric chloride.

73, Leon

--

Leon Heller, G1HSM  
Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221  
InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,  
NN12 6AD, United Kingdom.  
Email:leon\_heller@hotmail.com  
Web page: <http://www.geocities.com/SiliconValley/Code/1835>

---

Get Your Private, Free Email at <http://www.hotmail.com>

-----

Date: Thu, 30 Mar 2000 03:24:39 -0500  
From: aa5yx@juno.com  
To: qrp-l@lehigh.edu  
Subject: [66826] 30m QRP freq?  
Message-ID: <20000330.032440.9030.2.aa5yx@juno.com>

Good morning,

Is there a "standardized" QRP calling freq on 30 meters?

John Harper AA5YX/2

HW-9, OHR-100A/20, Norcal 40A, SST30, SST40, DSW20

Outdoor QRP Page: <http://home.att.net/~j..harper>

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 30 Mar 2000 04:29:14 -0500

From: joe lerch <joelerch@earthlink.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [66827] Public vs private responses. (was Best way to get finds accross W/VE border)

Message-ID: <00033004360100.00390@->

Content-Type: text/plain

MIME-Version: 1.0

Content-Transfer-Encoding: 8bit

>Thanks to all who responded. I have gotten lots of suggestions, and should  
>be able to get any one of them to work. Great ideas, all.

>Thanks.....Tom K3GM

I think it's great that people send personal responses to the people that ask questions on this list. However, if it is something that many would benefit from, please respond publically as well. I was very much interested in how Tom, K3GM solved his problem of sending money across the border. I have seen at least one other person also showing an interest in this subject.

thanks in advance,

joe

-----  
Date: Thu, 30 Mar 2000 10:20:54 +0100

From: "Ted Williams" <tedw@btinternet.com>

To: <alihernlem@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [66828] Re: Ammonium Persulfate

Message-ID: <00d801bf9a31\$83faf400\$4ecd01d5@ted>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Brad:

> Anyone here have experience etching PC boards with ammonium persulfate? I

Yes, Ammonium persulphate works quite well by itself, warmed makes it quicker, but the addition of a drop or two of a saturated mercuric chloride solution (POISON) speeds things up a bit. Not essential in my view.

Sri, I put English spelling.....persulfate, that better?

BTW: The etchant will readily (though slowly) make holes in clothing. Rinse splashes quickly with a bit of bicarbonate of soda and water. (baking soda).  
Dabbing with plain water may not be adequate.

Ted, GOULL

-----  
Date: Thu, 30 Mar 2000 17:48:47 +0700  
From: "Donny" <dsirait@centrin.net.id>  
To: <n2apb@erols.com>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66829] Re: Atlanticon Photo Album  
Message-ID: <007b01bf9a35\$c6b8b080\$49f992ca@donny>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Dear George & Gang,  
----- Original Message -----  
From: George Heron N2APB <n2apb@erols.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, March 29, 2000 22:25  
Subject: Re: Atlanticon Photo Album

> We'll soon get the Atlanticon Photo Album web page posted. I'm dropping my

> film off at a processing shop today ... hoping to get them placed onto  
CDROM  
> to save me hours of scanning time! Four rolls of 40 exposures (160  
images)  
> were snapped during the weekend by me alone!  
>  
> Images include: Friday night hospitality suite, each of the speakers on  
> Saturday, the W1FB/3 special event station in operation, bag lunches  
> everywhere on Saturday, all of the Building Contest entries, winners and  
the  
> long line at the SNAP measurement table, etc. Good stuff!  
>  
> Some others had digital cameras and have already sent their pics along to  
> me. If you haven't yet done so, and wish to share with us all, please  
send  
> the files along as email attachments (only attach a couple of images per  
> email, as it makes digestion on the server lots easier :-)

I suggest that all pictures can be pooled into a CD rom and whoever want  
an album can order from you George? Count that as an addendum/supplement for  
the compendium?

Unfortunately that still cost us in this part of the world a small fortune  
so will wait  
till something appears in QST or probably on the web.

Well done George.

vy 72 de YB1B0D  
Donny Sirait  
Bekasi Indonesia

-----  
Date: Thu, 30 Mar 2000 04:21:51 -0700  
From: "Francis Callahan" <colcal@srv.net>  
To: <k8cz@concentric.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [66830] Re: Chuck Adams has had his "repair" work done, doing fine  
Message-ID: <001a01bf9a3a\$26312980\$9ede070c@callahan>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Great Hope he is feeling much better. 72 Cal KF7ET

----- Original Message -----

From: "Tom Isgro" <k8cz@concentric.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, March 29, 2000 9:49 PM

Subject: Re: Chuck Adams has had his "repair" work done, doing fine

>  
>  
> PDouglas12@aol.com wrote:  
> >  
> > Gang,  
> >  
> > I've heard from Phyllis Adams, Chuck's wife. He's had his procedure, and  
is  
> > doing fine. He will be in hospital for about a week while they watch  
him.  
> > I'll keep you posted, though it wouldn't surprise me if Chuck didn't post  
> > something soon himself!  
> >  
> > 72,  
> >  
> > Preston WJ2V  
>  
>  
> Good to hear!  
>  
> --  
> 72, 73 oo's  
> Tom K8CZ Hamilton, OH  
> FPqrp #-41, QRP-1 945, FISTS 2360, NORCAL 2113, ARCI 9606,  
> 10-10 68364, SCI 1479, ARS 203, ARRL  
>

-----  
Date: Thu, 30 Mar 2000 06:53:22 -0500

From: "Jim Barrett - KC2DCC" <jbarrett@stny.rr.com>

To: <qrp-1@lehigh.edu>

Subject: [66831] Re: [Elecraft] Power corrupts

Message-ID: <000801bf9a3e\$8d0c32e0\$1c335e18@stny.rr.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Dean M. Rachwitz" <dean@totaltourtech.com>

To: <elecrafft@qth.net>

Sent: Wednesday, March 29, 2000 4:19 PM

Subject: [Elecrafft] Power corrupts

> Ok, I admit it. I want more power.

>

> Perhaps after receiving my K2, I will settle in to the QRP frame of mind and

> won't miss the extra 10db, but right now, I am afraid.

>

> Afraid I'll get the K2...and not be happy. I only have a modest antenna set

> up (40m dipole up 30ft, R5 vertical) and I am worried I just won't get out.

> This will be my only rig, so I won't have the option of firing up the good

> 'ole main rig if conditions get bad.

>

If you haven't done so before, spend some time listening to the IARU beacon network on 14.100, 18.110, 21.150, 24.930, and 28.200 MHz.

(See <http://www.ncdxf.org/beacon.htm> for more info).

These beacons use an R5 vertical just like yours, and transmit a stepped-power "long dash" at 100 watts, 10 watts, 1 watt and 100 MILLIWATTS... From my location in the Northeast US, on a typical evening, I can copy VE8AT (in the far northern Canadian Arctic), 5Z4B (Kenya), OH2B (Finland), CS3B (Madeira), OA4B (Peru) and YV5B (Venezuela) at all power levels right down to 0.1 watt.

VE8AT and YV5B in particular are almost always very strong here on 14.100 - often with S9 + 15 at the 10-Watt level, and still a very respectable S5 or S6 at the "flea-power" 100 miliiwatt level.

After midnight on 20 and/or 17 meters, I regularly copy the ZL6B beacon in New Zealand all the way down to the lowest power level.

I'm an apartment dweller and use a "hidden" dipole (28-gauge wire and shirt-button insulators), cut for 40 Meters, and up only 20 feet. It's fed by a 10-foot length of "el cheapo" 300-ohm twinlead used in conjunction with an MFJ 949E transmatch.

I use an MFJ 259B antenna analyzer to preset the tuner for the best possible match at any given frequency. With careful "tweaking" I can usually get the SWR down to 1.1:1 at most frequencies.

Since completing my K2 two weeks ago, I've found that I can regularly work from New York into Texas, New Mexico, Arizona and Southern California in the afternoon on 15 meters, with 5 watts or less and regular reports of 559 to 599 on the receiving end.

The "K2 Mojo" is very real. If you take a chance on QRP, I don't think you'll be disappointed!

73 es 72

Jim Barrett - KC2DCC

-----  
Date: Thu, 30 Mar 2000 07:27:16 -0600  
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66832] Re: 30m QRP freq?  
Message-ID: <003101bf9a4b\$ab340100\$04763ed8@aa5tb>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

John,

10.106 MHz has been listed in books for years as the QRP calling frequency but I don't think I've ever worked a QRP station there! That frequency is usually too close to some kind of rare DX :-)

I've worked QRP stations just about everywhere else on the band. In fact, most of the stations I've worked are QRP. I would just say that 30m is a QRP band.

73,  
Steve Yates - AA5TB  
Fort Worth, TX - EM12gs  
<http://home.swbell.net/aa5tb>

-----  
Date: Thu, 30 Mar 2000 07:30:15 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: Joel Malman <malman@world.std.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>



Subject: [66833] Re: ZS1AGI BEACON  
Message-ID: <Pine.LNX.3.95.1000330072931.1195A-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Joel.....I heard one of them a couple of weeks ago just prior to one of the last fox hunts.....I forget which one it was but it was there.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

On Wed, 29 Mar 2000, Joel Malman wrote:

> Folks,  
>  
> Speaking of beacons ... Anyone know what happened to the Russian C, S, etc  
> beacon on 7039.5 ??? It seems to have been down for about 4 months now.  
>  
> 72 ... joel  
> --  
> /joel K1QM (K1 Queen Mary) Concord, Massachusetts  
> QRP-L #337, QRP-ARCI #9305, MI-QRP #1641, SOC #42  
>

-----  
Date: Thu, 30 Mar 2000 07:32:42 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: PDouglas12@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66834] Re: Chuck Adams has had his "repair" work done, doing fine  
Message-ID: <Pine.LNX.3.95.1000330073149.1195B-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

SUPER news Preston!.....can't keep a good man down eh!?!.....please pass along my congratulations if you're talking with Chuck's xyl again...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Thu, 30 Mar 2000 13:44:59 +0100

From: "Walt Amos" <k8cv@worldspy.net>  
To: "Qrp-l Posts" <qrp-l@lehigh.edu>  
Subject: [66835] Fw: Public vs private responses. (was Best way to get finds accross W/VE border)  
Message-ID: <004301bf9a45\$c419a860\$22311440@walthk8cv>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Please DON'T post any more off topic stuff to the whole group, I have enough to delete already!

Thanks, keep up the good work of posting OFF reflector

Thanks again

Walt K8CV Royal Oak, Michigan " May the SOC be with you! "

----- Original Message -----

From: "joe lerch" <joelerch@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Thursday, March 30, 2000 10:29  
Subject: Public vs private responses. (was Best way to get finds accross W/VE border)

> >Thanks to all who responded. I have gotten lots of suggestions, and should  
> >be able to get any one of them to work. Great ideas, all.  
> >Thanks.....Tom K3GM  
>  
> I think it's great that people send personal responses to the people  
> that ask questions on this list. However, if it is something that many  
> would benefit from , please respond publically as well. I was very much  
> interested in how Tom, K3GM solved his problem of sending  
> money accross the border. I have seen at least one other person  
> alos showing an interest in this subject.  
>  
> thanks in advance,  
>  
>  
> joe  
>

-----  
Date: Thu, 30 Mar 2000 07:44:53 -0600  
From: Jay Freeman <jayFreem@direcpc.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66836] SUMMARY: Spider Antenna  
Message-ID: <38E35A54.35072B21@direcpc.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Howdy gang,

I received several responses to my spider antenna query. Only one guy said he even liked it, but not enough that he didn't replace with something better as soon as he could. All the other responses indicated dissatisfaction (ranging from mild to vehement). Thanks for your input!

73,

Jay

--  
\*-----\*  
\* Jay Freeman - WT9S ARRL \*  
\* G-QRP 10319 QRP-ARCI 9981 ARS 562 \*  
\* SASS #18700 NRA Life \*  
\*-----\*

-----  
Date: Thu, 30 Mar 2000 07:54:29 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [66837] QRP Get-together at Glacier Hamfest  
Message-ID: <Pine.LNX.3.95.1000330074044.1195D-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'd like to ask those who intend to show up at the second QRP Get-together at the Glacier/Waterton hamfest on July 14,15,26 to consider bringing your knowledge, experience with you regarding antennas....I'll bring a flip chart stand, paper & pens so that will be available for drawing anything....bring the actual antenna(s) if you want....so we'll have the (1) antenna thing plus the (2) show & tell.....maybe let me know about the

antenna thing so I can post that info to the group....I've had about 6 replies so far as to attending the Get-together.....thank you....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Thu, 30 Mar 2000 09:13:36 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <ianpurdie@integritynet.com.au>, "Low Power Amateur Radio Discussion" <qrp-  
l@lehigh.edu>  
Subject: [66838] Re: [OT] Best way to get funds across W/VE border?  
Message-ID: <00af01bf9a52\$27ce71e0\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Ian, (et al)

I've sent funds into Russia, which has got to be one of the hardest places to 'make sure' that the money gets to where it needs to go and at the same time gets there relatively fast. This is especially true if you're sending in multi-hundred dollar amounts for 'one-shot' deals, like to private individuals and not something that you would be doing on a repetitive basis.

We were advised to use the old standby 'Western Union'. We call the local office here and can even 'charge' the amount on a credit card, or deliver a check. They give a receipt with a 'transfer number' on it. You notify the party at the other end and tell them the number and they just go to the local office, give the number, and they have the money. No number, no money, no way. If you send them the number and are concerned about security, send it piecemeal via different means. Or send the 'wrong' number with piecemeal methods to 'correct' it by various methods.

Mike

> K3GM wrote:

>

> > Thanks to all who responded. I have gotten lots of suggestions, and should

> > be able to get any one of them to work. Great ideas, all.  
>  
> Tom, could you share those ideas as this is a particularly vexing  
problem for  
> international dealings.  
>  
> As an example I am due to receive a check for \$US25.00 which roughly  
equates to  
> \$A40.00. My bank will then charge me \$8.00 to cash it.  
>  
> The problem seems interminable for relatively small sums of money and  
no way  
> will I use a credit card on the www. I've seen too many horror stories  
of fraud  
> on some of the e-commerce lists I subscribe to. The hackers have a  
field day.  
>  
>  
> 72/73's  
>  
> Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E  
> My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>  
> VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"  
> URL - <http://www.integritynet.com.au/~purdic/>  
>  
>  
>

-----  
Date: Thu, 30 Mar 2000 08:22:20 -0600  
From: "Kevin Muenzler, WB5RUE" <[wb5rue@stic.net](mailto:wb5rue@stic.net)>  
To: <[W1REX@aol.com](mailto:W1REX@aol.com)>, "'Low Power Amateur Radio Discussion'" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [66839] RE: Dangerous stuff!!  
Message-ID: <[000301bf9a53\\$5c2cdbb0\\$ef5d6f81@v8.uthscsa.edu](mailto:000301bf9a53$5c2cdbb0$ef5d6f81@v8.uthscsa.edu)>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Where does one get such stuff? I remember my father using it for various  
etchings and cleanings of metals. With all the "environmental regulations"  
these days I can't even find Copper Sulfate for my goldfish ponds!

73/  
Kevin, WB5RUE

-----  
Date: Thu, 30 Mar 2000 09:23:40 -0500  
From: Gordon <gordon@znet.groupz.net>  
To: qrp-1@Lehigh.EDU  
Subject: [66840] hammarlund  
Message-ID: <4.2.0.58.20000330092124.0096b6d0@mail.groupz.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Anyone out there know if there is a place where one can have a hammarlund  
rcvr worked on?  
I know it is old but it was the first brand new piece of ham equip I ever  
bought .your help is appreciated

73 Gordon W4KYW

-----  
Date: Thu, 30 Mar 2000 09:31:16 -0500  
From: "Craig A. Ferris" <cferris@aeronix.com>  
To: qrp-1@Lehigh.EDU  
Subject: [66841] NorCal sierra variable cap question  
Message-ID: <38E36534.A26994CF@aeronix.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Does anyone know the source and part # for the main tuning cap with  
built in 8:1 reduction?

72/73

Craig NR4E  
Melbourne, FL

-----  
Date: Thu, 30 Mar 2000 08:41:17 -0600  
From: "Cla KA0GKC" <ka0gkc@arrl.net>  
To: "QRP-1" <qrp-1@lehigh.edu>  
Subject: [66842] Board Etching Techniques  
Message-ID: <00f301bf9a56\$61be7540\$0200000a@aplitech>

With all this talk about ammonium persulfate and ferric chloride etchants, I thought I'd post my favorite etching technique. I use ferric chloride but only because it's readily available. And yes, it can be very messy. Here's what I do to curtail the potential mess.

Put a small plastic bucket, like a 5 quart ice cream container, filled 3/4 quarters full with warm water on the bench. Then I take a ziplock bag, do use the yellow/green makes blue type, and place the board to be etched in it. I use the sandwich size for most boards and the snack size for the little ones. I've never had an occasion to use a bigger size. Over the bucket of water, add enough etchant so if the bag was sealed and laying flat it would be about 1/4 inch height and seal the bag using a paper towel in between your fingers if you slopped a little. Then I put it in the warm water bucket and agitate it using a tongs.

The nice part is that any drops of etchant on the outside of the bag or a bit of a spill pouring the etchant into the bag gets immediately very diluted. There is no splashing etchant either, a little water maybe but it doesn't stain. The bucket is nice in the event you get a little leak as well. You should always use a file or sandpaper to break the corners of your board to remove any sharp points ahead of time. Checking your process is easy, just push the board against the bag wall to have a look. Doing this in the warm water also warms the etchant and speed the process.

When done, carefully unzip the bag and remove the board with the tongs and rinse by swishing it in the bucket of water. The bag is easy to pour the etchant from into a funnel on your etchant container if you choose to save it. If not, just drop it in the bucket and dispose of down the drain with lots of running water, throwing the rinsed bag in the trash of course.

There, all done and no mess!

I can't take credit for this, I learned about using the ziplock bag from John, KA00SC and I've been doing it in a bucket of water after the first time I had a leak. Remember, file or sand those corners a little bit!

Hope this Helps,

73 de Cla KA0GKC

-----  
Date: Thu, 30 Mar 2000 09:58:27 -0500  
From: "AI2Q Alex" <ai2q@ispchannel.com>  
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [66843] RE: Board Etching Techniques

Message-ID: <000001bf9a58\$6824b960\$5c32a7d0@ispchannel.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

In line with this discussion on board etching, can anyone comment on the effects on a septic system due to pouring small quantities of waste ferric chloride in there?

Similarly, does anyone have experience with the effects of photographic chemicals (developer, stop bath, fixer) on septic systems?

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----  
Date: Thu, 30 Mar 2000 09:06:03 -0600  
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>  
To: <aa5yx@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [66844] Re: 30m QRP freq?  
Message-ID: <003801bf9a59\$789a2cc0\$753c0b3f@default>

John .... The crystal that I got from NORCAL for 30 meters is 10.116. I've heard a lot of calling activity on that frequency.

Mike in Minnesota

-----Original Message-----  
From: aa5yx@juno.com <aa5yx@juno.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Thursday, March 30, 2000 2:19 AM  
Subject: 30m QRP freq?

>Is there a "standardized" QRP calling freq on 30 meters?  
>

-----  
Date: Thu, 30 Mar 2000 08:09:30 -0700  
From: Ray Colbert <af852@rgfn.epcc.edu>



To: qrp-1@lehigh.edu  
Subject: [66845] Fw: Public vs private responses. (was Best way to get finds accross W/VE border)  
Message-ID: <38E36E2A.47340D65@rgfn.epcc.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I don't agree with Walt's request that this was an inappropriate topic (best ways of retrieving finds from across the W/VE border) as there are a lot of qrp and glowbug/BA items available and a lot of interested people don't take advantage of that availability because of the potential problems to be encountered. And suggestions on how to avoid those problems would have been an appropriate subject here as a limited item of interest.

--

"The more I see of the representatives of the people,  
the more I admire my dogs."  
letter from Count d'Orsay to John Foster 1850

-----  
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
(also w5xe@juno.com)ARRL VE, El Paso,(FAR WEST) TEXAS

-----  
Date: Thu, 30 Mar 2000 10:10:13 -0500  
From: "Dieter \ (Diz\ ) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>  
To: "QRP-L" <qrp-1@lehigh.edu>  
Subject: [66846] Re: Board Etching Techniques  
Message-ID: <006c01bf9a5a\$0c6e69c0\$05061d18@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Neutralize the FeCl3 with baking soda.  
It will precipitate the Iron  
AND Copper out of your waste solution.

73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY  
Loveland, Ohio (Clermont County - EM79ug) - near Cincinnati; 39.218N -  
84.305W  
FPqrp#-1 SOC#8 DL-QRP-AG#1454 ARCI#10226 QRP-L#1998 10-X#9389 CATT#26 K2#493  
<http://home.cinci.rr.com/wb8qyy> [AOL-IM "wb8qyy"]

----- Original Message -----

From: "AI2Q Alex" <ai2q@ispchannel.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Thursday, March 30, 2000 9:58 AM

Subject: RE: Board Etching Techniques

> In line with this discussion on board etching, can anyone comment on the  
> effects on a septic system due to pouring small quantities of waste ferric  
> chloride in there?

>

> Similarly, does anyone have experience with the effects of photographic  
> chemicals (developer, stop bath, fixer) on septic systems?

>

> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

>

>

-----

Date: Thu, 30 Mar 2000 10:14:21 -0500

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <af852@rgfn.epcc.edu>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [66847] Re: Public vs private responses. (was Best way to get finds  
across W/VE border)

Message-ID: <02f601bf9a5a\$a45f33e0\$2101a8c0@insydesw.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I agree, I think this is a VERY appropriate topic, although  
not mainstream 'on topic'.

I see nothing wrong with it as long as it's appropriately  
and correctly described in the subject line.

Mike

> I don't agree with Walt's request that this was an  
> inappropriate topic (best ways of retrieving finds  
> from across the W/VE border) as there are a lot  
> of qrp and glowbug/BA items available and a lot  
> of interested people don't take advantage of that  
> availability because of the potential problems to

> be encountered. And suggestions on how to avoid  
> those problems would have been an appropriate subject  
> here as a limited item of interest.  
>  
> --  
> "The more I see of the representatives of the people,  
> the more I admire my dogs."  
> letter from Count d'Orsay to John Foster 1850  
> -----  
> Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
> (also w5xe@juno.com)ARRL VE, El Paso,(FAR WEST) TEXAS  
>

-----  
Date: Thu, 30 Mar 2000 10:39:18 -0500  
From: aa5yx@juno.com  
To: qrp-l@lehigh.edu  
Subject: [66848] Re: 30m QRP freq?  
Message-ID: <20000330.103935.11142.3.aa5yx@juno.com>

Thanks for the replies everyone. Too many to thank individually!

A round of 72's for everyone. Put it on my tab,

John Harper AA5YX/2  
HW-9, OHR-100A/20, Norcal 40A, SST30, SST40, DSW20  
Outdoor QRP Page: <http://home.att.net/~j..harper>

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 30 Mar 2000 10:45:57 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>  
Subject: [66849] Re: NEQRP meeting <this> weekend  
Message-ID: <125490A005E3D3118C9C00805FC743CC3E188A@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Joe, N2CX writes:

> The day usually wraps up with a chance to operate  
> W1AW/QRP - just remember to bring along your license.  
> And if you are \*really\* lucky you just may have a  
> chance to operate using the original Tuna Tin  
> rig. I can't promise this but it is a possibility.

Okay, here's the deal. :-) I wanted to come to the meeting anyway, to chat with the NEQRP folks about a contest idea I have in mind for the Central CT QRP Club. So, seeing as I will be there anyway, I will indeed bring along the TT2.

Going to do a new twist, though; N10DL was kind enough to loan me his TT2, so I will set that up as W1FB in one corner of the ARRL Lab. The original TT2 will be set up in our HQ club station and folks can use their own calls on the original to work W1FB. We will have to do Quickie QSOs, because we will have to sandwich this in between the meeting and lunch, but this will give the NEQRP folks a chance to play with the original and get a W1FB QSO at the same time.

I won't have a lot of time on Saturday, so I won't hook these rigs up to big antennas and make "DX" QSOs, but the Central CT QRP Club has plenty of activities planned, so those who haven't had their TT2 or W1FB QSOs will have lots of opportunities!

Now, I wonder how many of the NEQRP folks who saw that article in 1976 would have ever thought that the TT2 on the cover would be someday be operated under THEIR callsigns. :-)

73,  
Ed Hare, W1RFI

-----  
Date: Thu, 30 Mar 2000 10:51:03 -0500  
From: "Ed Tanton" <n4xy@att.net>  
To: <gordon@znet.groupz.net>  
Cc: "QRP-L Reflector" <qrp-l@Lehigh.EDU>, "Hammarlund Reflector" <hammarlund@qth.net>  
Subject: [66850] RE: hammarlund  
Message-ID: <NBBBJDEEIFDDANGEGHLBAEJPJHAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi Gordon... Milton Lord, N4DA, at can very likely help you. He is in

Cartersville, GA at

Ham Radio Repair  
17 South Ridge Trail  
Cartersville, GA 30120

and his TEL is: 770-966-1166.

I have no connection, other than satisfied customer, and long time acquaintance (as a result). Milt does good work.

Ed Tanton N4XY <n4xy@arrl.net>

Website: [www.qsl.net/n4xy](http://www.qsl.net/n4xy)

"Do what's right. You'll please some people, and amaze everyone else."

Mark Twain

QUOTE:

>Subject: hammarlund

>

> Anyone out there know if there is a place where one can have a hammarlund  
>rcvr worked on?

>I know it is old but it was the first brand new piece of ham equip I ever  
>bought .your help is appreciated

>

> 73 Gordon W4KYW

-----  
Date: Thu, 30 Mar 2000 11:12:17 -0500 (EST)  
From: rxd7@po.cwru.edu (Richard A. Dell)  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66851] Mini Quad  
Message-ID: <v02130501b508e02a1693@[129.22.116.87]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Some time ago the group metioned that the "Mini Quad" that was made in Pennsylvania was again being made some where in Canada. Does anyone know their address and or website ?

Thanks,

Dick Dell, WD8ISB

-----  
Date: Thu, 30 Mar 2000 08:20:29 PST  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: ka0gkc@arrl.net, qrp-1@Lehigh.EDU  
Subject: [66852] Re: Board Etching Techniques  
Message-ID: <20000330162029.81882.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

>  
>Put a small plastic bucket, like a 5 quart ice cream container, filled 3/4  
>quarters full with warm water on the bench. Then I take a ziplock bag, do  
>use  
>the yellow/green makes blue type, and place the board to be etched in it.  
>I  
>use the sandwich size for most boards and the snack size for the little  
>ones.

I do something like this, but put the board and etchant in a small sealable plastic food container, which goes into a bowl of hot water. I poke it periodically to agitate the contents.

Leon

--

Leon Heller, G1HSM

Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221

InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,  
NN12 6AD, United Kingdom.

Email:leon\_heller@hotmail.com

Web page: <http://www.geocities.com/SiliconValley/Code/1835>

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 30 Mar 2000 11:21:47 -0500  
From: "Ed Tanton" <n4xy@att.net>  
To: "CW Reflector" <cw@qth.net>  
Cc: "QRP-L Reflector" <qrp-l@Lehigh.EDU>, "Fists" <Fists@qth.net>  
Subject: [66853] Poll on QRZ.COM  
Message-ID: <NBBBJDEEIFDDANGEGLBGEKBJHAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I just noticed an interesting poll on QRZ.COM (<http://www.qrz.com/>) . The question is: "If you could vote Yes or No for the new 5 WPM code rules, you would vote: YES NO?" It's the results I find interesting: YES: 49% w/2900 votes; and NO: 51% w/2998 votes. so, ~50-50 after ~6000 votes.

Ed Tanton N4XY <n4xy@arrl.net>

Website: [www.qsl.net/n4xy](http://www.qsl.net/n4xy)

"Do what's right. You'll please some people, and amaze everyone else."

Mark Twain

-----  
Date: Thu, 30 Mar 2000 11:23:32 EST  
From: Dean W Manley <kh6b@juno.com>  
To: malman@world.std.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [66854] Re: ZS1AGI BEACON  
Message-ID: <20000330.062501.5391.1.kh6b@juno.com>

Hi Joel,

Re: Russian beacons on 7039 kHz.

The "S" beacon was heard in Hawaii on the 1st and 3rd of March. The "F" beacon is routinely heard here most mornings.

Aloha,  
Dean KH6B

>Speaking of beacons ... Anyone know what happened to the Russian C, S,

>etc  
>beacon on 7039.5 ??? It seems to have been down for about 4 months  
>now.

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Wed, 29 Mar 2000 20:01:10 -0600  
From: "Chuck Carpenter" <w5usj@globeco.net>  
To: qrp-l@Lehigh.EDU  
Subject: [66855] =?iso-8859-1?Q?0.T.\_=97\_CW\_for\_hearing\_impaired?=  
Message-ID: <3.0.2.32.20000329200110.007adea0@mail.globeco.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Group,

I'm looking for ideas to help hearing impaired folks to learn CW. I'm trying blinking lights along with tones, buzzers, and vibrations. Keying an incandescent lamp has a rise and fall time problem, especially with dits.

I'm working on the possibility of a laser diode with a shutter/flapper using a relay to provide the mechanical motion. This would eliminate the lamps rise and fall time.

Any ideas, suggestions, comments would be greatly appreciated.

Chuck Carpenter, Point, Rains County, Texas -- RARA #003  
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

-----  
Date: Thu, 30 Mar 2000 11:49:01 -0500 (EST)  
From: Chris Cartwright Sr <ccart@phideaux.com>  
To: Chuck Carpenter <w5usj@globeco.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66856] Re: =?iso-8859-1?Q?0.T.\_=97\_CW\_for\_hearing\_impaired?=  
Message-ID: <Pine.LNX.4.04.10003301142270.3026-100000@dns.phideaux.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Mar 2000, Chuck Carpenter wrote:



> I'm looking for ideas to help hearing impaired folks to learn CW. I'm

I once worked a guy who "listened" to his radio by laying a finger lightly on the open speaker cone. QSB got us, but we did get a mostly cookie cutter QSO out of it. If he hadn't told me he was hearing impaired (and how he listened to CW) I would have never thought anything was different about our chat. Very interesting how people adapt and overcome things.

72 es gl

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --  
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

-----  
Date: Thu, 30 Mar 2000 10:54:43 -0600  
From: "George T. Baker" <w5yr@att.net>  
To: w5usj@globeco.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66857] Re: O.T. =?iso-8859-1?Q?=97?= CW for hearing impaired  
Message-ID: <38E386D3.1172B394@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Chuck, when I taught code to Air Force cadets back in the early 50's, we had to qualify them at 5 wpm on "blinker" or visual. For that I used large neon bulbs with a cone-shaped paper cup inverted over them to diffuse the light. The neons would key rapidly and produce adequate light. The neon bulbs were the large type - about 1.5 " in diameter with a bayonet base. Haven't seen them in years, but maybe something in multiple LEDs could work. The trick is to diffuse the light onto a larger surface area.

72/73, George  
Fairview, TX 30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
R/C since 1964 - AMA 98452 Rving since 1972 Kachina #91900556

Chuck Carpenter wrote:

>  
> Group,  
>

> I'm looking for ideas to help hearing impaired folks to learn CW. I'm  
> trying blinking lights along with tones, buzzers, and vibrations. Keying  
> an incandescent lamp has a rise and fall time problem, especially with dits.  
>  
> I'm working on the possibility of a laser diode with a shutter/flapper  
> using a relay to provide the mechanical motion. This would eliminate the  
> lamps rise and fall time.  
>  
> Any ideas, suggestions, comments would be greatly appreciated.

-----  
Date: Thu, 30 Mar 2000 12:04:31 -0500  
From: "Everhart, Joseph @ CSE" <jeverhar@mail.cse.l-3com.com>  
To: "'w5usj@globeco.net'" <w5usj@globeco.net>  
Cc: "'qrpl'" <qrp-l@lehigh.edu>  
Subject: [66858] RE: O.T. ? CW for hearing impaired  
Message-ID: <56AE25C909CED311BEA70000D11AD11E3A0B85@l3c-xchg-  
cse.mail.cse.l-3com.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Chuck,

Why not use an LED or array of them, turning them on and off. Their  
response  
time is no worse than microseconds so they do not suffer the rise and fall  
time problems that incandescent lamps do. And they are now available in  
lots  
of colors such as red, green, yellow, orange, blue and even a near-white.

Joe E.

You wrote:

I'm looking for ideas to help hearing impaired folks to learn CW. I'm  
trying blinking lights along with tones, buzzers, and vibrations. Keying  
an incandescent lamp has a rise and fall time problem, especially with dits.

I'm working on the possibility of a laser diode with a shutter/flapper  
using a relay to provide the mechanical motion. This would eliminate the  
lamps rise and fall time.

Any ideas, suggestions, comments would be greatly appreciated.

-----

Date: Thu, 30 Mar 2000 12:06:10 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <n4xy@att.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [66859] OT: Poll on QRZ.COM  
Message-ID: <002801bf9a6a\$46bd86a0\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

But it doesn't ask which direction if you vote 'no'.

That really should have been a 3-way question.

Mike

> I just noticed an interesting poll on QRZ.COM (<http://www.qrz.com/>) .  
The  
> question is: "If you could vote Yes or No for the new 5 WPM code  
rules, you  
> would vote: YES NO?" It's the results I find interesting: YES: 49%  
> w/2900 votes; and NO: 51% w/2998 votes. so, ~50-50 after ~6000 votes.  
>  
> Ed Tanton N4XY <n4xy@arrl.net>  
>  
> Website: [www.qsl.net/n4xy](http://www.qsl.net/n4xy)  
>  
> "Do what's right. You'll please some people, and amaze everyone else."  
>  
> Mark Twain  
>  
>

-----  
Date: 30 Mar 00 17:07:31 America/Fort\_Wayne  
From: M Goins <mgoins@usa.net>  
To: qrp-1@Lehigh.EDU  
Subject: [66860] possible 10 meter interference  
Message-ID: <20000330170731.1383.qmail@aw162.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

I received this offer for a cordless computer keyboard from XOOM.com. Not=  
ice  
the frequency it operates on-

<http://orders.xoom.com/nwkbd/rchnwkbd0329/>

=

The Nimble Cordless Keyboard features multiple benefits:

- \* 5 colored function keys
- \* Quiet soft-touch and tactile feedback
- \* 10-meter transmission
- \* Familiar 104/105 keys enhanced layout
- \* Built-in infrared technology

-----  
Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Thu, 30 Mar 2000 12:09:36 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <w5yr@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [66861] =?iso-8859-1?Q?Re:\_O.T.\_- \_CW\_for\_hearing\_impaired?=  
Message-ID: <005001bf9a6a\$db034a20\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

AND stay with LEDs (or nean bulbs) not incandescant light bulbs.  
Something with inconsequential turn-on and turn-of times.

Some people think it doesn't matter... Warm up time and  
persistance of filaments in bulbs. But just talk to serious drag  
racers and THEIR attitudes about different bulbs in the tree.

Mike

> Chuck, when I taught code to Air Force cadets back in the early 50's,  
we  
> had to qualify them at 5 wpm on "blinker" or visual. For that I used  
> large neon bulbs with a cone-shaped paper cup inverted over them to

> diffuse the light. The neons would key rapidly and produce adequate  
> light. The neon bulbs were the large type - about 1.5 " in diameter  
with  
> a bayonet base. Haven't seen them in years, but maybe something in  
> multiple LEDs could work. The trick is to diffuse the light onto a  
larger  
> surface area.  
>  
> 72/73, George  
> Fairview, TX 30 mi NE Dallas in Collin county  
> Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
> R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556  
>  
>  
> Chuck Carpenter wrote:  
> >  
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> > I'm looking for ideas to help hearing impaired folks to learn CW.  
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Keying  
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with dits.  
> >  
> > I'm working on the possibility of a laser diode with a  
shutter/flapper  
> > using a relay to provide the mechanical motion. This would eliminate  
the  
> > lamps rise and fall time.  
> >  
> > Any ideas, suggestions, comments would be greatly appreciated.  
>

-----  
Date: Thu, 30 Mar 2000 09:11:59 PST  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [66862] [OT] Best way to get funds across W/VE border?  
Message-ID: <20000330171159.5445.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

The last time I had a VE land transaction I also sent a U.S. postal money order and then read the fine print AFTERWARD, as you did. Apparently there was no problem on the other end in my case (fortunately) but I did ask the

post office about this. I was told that they have a different money order for such purposes. You may want to check on that.

Brad

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 30 Mar 2000 10:14:51 -0700  
From: Roger Hightower <n7kt@worldnet.att.net>  
To: mgoins@usa.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66863] Re: possible 10 meter interference  
Message-ID: <38E38B8B.2D7AC9AD@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I think the "10 meter transmission" refers to the distance from the keyboard to the computer IR port, and not the frequency.

--

72.....Roger

Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14

-----  
Date: Thu, 30 Mar 2000 12:14:30 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'w5usj@globeco.net'" <w5usj@globeco.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66864] RE: O.T. ? CW for hearing impaired  
Message-ID: <125490A005E3D3118C9C00805FC743CC3E188F@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"

When I was working for my 250 mW WAS, the ham I talked to in NH on CW was profoundly deaf. Turns out he simply put his fingertip on the speaker to copy CW. I thought I was impressed. When (QSK) I heard nearby QRM, I gave a quick break, asking how he was faring. He said that he "heard" the QRM, but that he was able to distinguish the two tones separately, even though I was the weakest signal on frequency. Then I WAS impressed!

73,  
Ed Hare, W1RFI

-----Original Message-----

From: Chuck Carpenter [mailto:w5usj@globeco.net]

Sent: Wednesday, March 29, 2000 9:01 PM

To: Low Power Amateur Radio Discussion

Subject: O.T. ? CW for hearing impaired

Group,

I'm looking for ideas to help hearing impaired folks to learn CW. I'm trying blinking lights along with tones, buzzers, and vibrations. Keying an incandescent lamp has a rise and fall time problem, especially with dits.

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Any ideas, suggestions, comments would be greatly appreciated.

Chuck Carpenter, Point, Rains County, Texas -- RARA #003

ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

-----  
Date: Thu, 30 Mar 2000 09:15:35 -0800 (PST)

From: Curt Milton <wb8yyy@yahoo.com>

To: mgoins@usa.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [66865] Re: possible 10 meter interference

Message-ID: <20000330171536.21297.qmail@web2003.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Excuse my lack of humor, but taking this literally this think transmits 10 meter DISTANCE and probably uses infared ... but there still maybe QRM in there from the digital circuitry!

--- M Goins <mgoins@usa.net> wrote:

> I received this offer for a cordless computer

> keyboard from XOOM.com. Notice

> the frequency it operates on-

>

> <http://orders.xoom.com/nwkbd/rchnwkbd0329/>

>

>

> The Nimble Cordless Keyboard features multiple  
> benefits:

- >
- > \* 5 colored function keys
- > \* Quiet soft-touch and tactile feedback
- > \* 10-meter transmission
- > \* Familiar 104/105 keys enhanced layout
- > \* Built-in infrared technology

>  
>  
>  
>  
>  
>

---

> Get free email and a permanent address at  
> <http://www.amexmail.com/?A=1>  
>

=====

Curt WB8YYY  
Eldersburg, Maryland

<http://www.qsl.net/wb8yyy>  
HW-8, 40m ugly weekender, 38S

---

Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Thu, 30 Mar 2000 11:18:26 -0600  
From: "George T. Baker" <w5yr@att.net>  
To: mgoins@usa.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66866] Re: possible 10 meter interference  
Message-ID: <38E38C62.E71EEBAD@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

They're talking \*distance\* not frequency I bet . . .

72/73, George  
Fairview, TX 30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!



R/C since 1964 - AMA 98452    RVing since 1972

Kachina #91900556

M Goins wrote:

>  
> I received this offer for a cordless computer keyboard from XOOM.com. Notice  
> the frequency it operates on-  
  
>    \* 10-meter transmission

-----  
Date: Thu, 30 Mar 2000 12:24:19 -0500  
From: KD1YV <kd1yv@mindspring.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66867] Re: Poll on QRZ.COM  
Message-ID: <38E38DC3.461B7117@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just remember that this poll and all of the other ones on QRZ and ARRL, etc.,  
have NO STATISTICAL ACCURACY. YOUR MILEAGE MAY VARY. FOR ENTERTAINMENT  
PURPOSES ONLY. CLOSE COVER WHILE STRIKING.

--

72/73 de Jim, KD1YV

All of my friends must be related. Every one has @ in his/her name.

Ed Tanton wrote:

> I just noticed an interesting poll on QRZ.COM (<http://www.qrz.com/>) . The  
> question is: "If you could vote Yes or No for the new 5 WPM code rules, you  
> would vote: YES NO?" It's the results I find interesting: YES: 49%  
> w/2900 votes; and NO: 51% w/2998 votes. so, ~50-50 after ~6000 votes.

>  
> Ed Tanton N4XY <n4xy@arrl.net>

>  
> Website: [www.qsl.net/n4xy](http://www.qsl.net/n4xy)

>  
> "Do what's right. You'll please some people, and amaze everyone else."

>  
>                    Mark Twain

-----

Date: Thu, 30 Mar 2000 13:48:41 EST  
From: PDouglas12@aol.com  
To: qrp-1@lehigh.edu  
Subject: [66868] Chuck Adams progress report  
Message-ID: <a.2047846.2614fb89@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Gang,

Chuck is doing well. I spoke with him around 1:30 NY time this afternoon. He is out of the ICU, in a room and getting a lot of medicine. He may be allowed out within a day, though he will be required to stay in the Dallas area for the week, so he can be watched. I passed on a lot of your regards, and he says likewise.

72,

Preston WJ2V

-----  
Date: Thu, 30 Mar 2000 11:01:39 -0800  
From: Marv Fagenson <k6hcj@juno.com>  
To: qrp-1@Lehigh.edu  
Subject: [66869] Not 'zackly QRP but  
Message-ID: <20000330.110142.-272475.0.k6hcj@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

who makes a ham call CD ROM these days besides Buckmaster? The ham mags show no other.

Tnx, 72

Marv Fagenson  
k6hcj@Juno.com

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 30 Mar 2000 14:06:28 -0500

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'kd1yv@mindspring.com'" <kd1yv@mindspring.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [66870] RE: Poll on QRZ.COM  
Message-ID: <125490A005E3D3118C9C00805FC743CC3E1896@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

The poll results seem to reflect the opinions that various hams have shared with me. About half seem to think 5 wpm is right for now (some because of the treaty, others because they want to see some code testing), while about half want to see it faster or eliminated altogether.

Now, I wonder if I can talk ARRL into doing a QRP survey on its web page?  
:-) Other than the obvious, any suggestions on the way to ask the question?

Q: What percentage of your operating is done using QRP? (5 W or less)

75-100%

50-75%

25-50%

Less than 25%

Never

I am not active at this time.

73 from ARRL HQ,  
Ed Hare, W1RFI  
ARRL Laboratory Supervisor  
225 Main St.  
Newington, CT 06111  
860-594-0318  
Internet: w1rfi@arrl.org  
ARRL Web: <http://www.arrl.org/>.  
ARRL Technical Information Service: <http://www.arrl.org/tis>.

-----Original Message-----

From: KD1YV [mailto:kd1yv@mindspring.com]  
Sent: Thursday, March 30, 2000 12:24 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Poll on QRZ.COM

Just remember that this poll and all of the other ones on QRZ and ARRL, etc., have NO STATISTICAL ACCURACY. YOUR MILEAGE MAY VARY. FOR ENTERTAINMENT PURPOSES ONLY. CLOSE COVER WHILE STRIKING.

--

72/73 de Jim, KD1YV

All of my friends must be related. Every one has @ in his/her name.

Ed Tanton wrote:

> I just noticed an interesting poll on QRZ.COM (<http://www.qrz.com/>) . The  
> question is: "If you could vote Yes or No for the new 5 WPM code rules,  
you

> would vote: YES NO?" It's the results I find interesting: YES: 49%  
> w/2900 votes; and NO: 51% w/2998 votes. so, ~50-50 after ~6000 votes.

>

> Ed Tanton N4XY <n4xy@arrl.net>

>

> Website: [www.qsl.net/n4xy](http://www.qsl.net/n4xy)

>

> "Do what's right. You'll please some people, and amaze everyone else."

>

> Mark Twain

-----

Date: Thu, 30 Mar 2000 14:21:44 -0500

From: "John J. McDonough" <wb8rcr@arrl.net>

To: <k6hcj@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [66871] Re: Not 'zackly QRP but

Message-ID: <014801bf9a7d\$306b6f80\$010044c0@Conor.baycty1.mi.home.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I believe QRZ has one, as well as the Callbook. You can get the Callbook  
from AES - I expect they have QRZ too.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>

didileydadidah QRP-L #1446 Code Warriors #35

-----Original Message-----

From: Marv Fagenson <k6hcj@juno.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Thursday, March 30, 2000 2:05 PM

Subject: Not 'zackly QRP but

>who makes a ham call CD ROM these days besides Buckmaster? The ham mags  
>show no other.  
>Tnx, 72  
>Marv Fagenson  
>k6hcj@Juno.com  
>  
>  
-----  
>YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
>Juno now offers FREE Internet Access!  
>Try it today - there's no risk! For your FREE software, visit:  
><http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 30 Mar 2000 19:28:09 -0000  
From: "Mark Hogan" <mhogan@email.msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66872] Re: Not 'zackly QRP but  
Message-ID: <014401bf9a7e\$1601d980\$9ee90181@cityweb.gov>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

[www.QRZ.COM](http://www.QRZ.COM)

> who makes a ham call CD ROM these days besides Buckmaster? The ham mags  
> show no other.

-----  
Date: Thu, 30 Mar 2000 12:50:35 -0700  
From: Ray Colbert <af852@rgfn.epcc.edu>  
To: k6hcj@Juno.com  
Subject: [66873] Re: Not 'zackly QRP but  
Message-ID: <38E3B00B.D7AE12FB@rgfn.epcc.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

qrz.com, callbook (the old paperbook people only  
have info on cd - I like it as it does quite a lot  
and contains a lot of info. I think there are one

or two more but don't remember now - most if not  
all used to have small ads in cq and worldradio.

--

"The more I see of the representatives of the people,  
the more I admire my dogs."

letter from Count d'Orsay to John Foster 1850

-----

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
(also w5xe@juno.com)ARRL VE, El Paso,(FAR WEST) TEXAS

-----

Date: Thu, 30 Mar 2000 12:55:26 -0700

From: "Rod, N0RC" <n0rc@qsl.net>

To: <k6hcj@juno.com>

Cc: "qrp-1" <qrp-1@Lehigh.EDU>

Subject: [66874] Re: Not 'zackly QRP but

Message-ID: <006901bf9a82\$4cb94720\$b2101004@compaq>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I have the "Radio Amateur Callbook", AKA Flying Horse Callbook,  
because of the flying horse on the cover. Best call book I've seen. US  
and DX calls. Available form ARRL website. They don't publish it, they  
just sell it.

---

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----

From: Marv Fagenson <k6hcj@juno.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, March 30, 2000 12:01 PM

Subject: Not 'zackly QRP but

> who makes a ham call CD ROM these days besides Buckmaster? The ham  
mags  
> show no other.

-----

Date: Thu, 30 Mar 2000 12:57:29 -0700

From: "Rod, N0RC" <n0rc@qsl.net>

To: "qrp-1" <qrp-1@Lehigh.EDU>, "ncarc reflector" <ncarc@qth.net>  
Subject: [66875] Post Atlanticon Building Plans  
Message-ID: <006a01bf9a82\$4dffd0e0\$b2101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well, Atlanticon is several days old, but its affects linger on. I really got stoked by this Manhattan construction, intrigued by Joe Everhart's COTS (commercial off the shelf) ideas, and motivated by Jim and Chuck's craftsmanship. Combining the ideas I thought why not HB Manhattan Style an existing (COTS) rig, and strive for a "beauty contest" winner. I thought I better start off with something simpler, around 100 parts or so, to refine my skill level.

So, I've been looking through all the books and catalogs I have, and have kind of settled on the NE-4040 from "QRP Power". Now this rig has been around a while so I thought I'd ask what mod's are a must.

Yes, I know I can buy it as a SW-XX. This project is not about building another radio so much, I have too many already. ;-) This project is about refining the process, and improving my construction skills.

---

72/3 Rod, N0RC -- Fort Collins, CO

-----

Date: Thu, 30 Mar 2000 15:04:10 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <w1rfi@arrl.org>, "QRP Mail List" <qrp-1@lehigh.edu>  
Subject: [66876] Re: Poll on QRZ.COM  
Message-ID: <001b01bf9a83\$216f5180\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Ed,

If you ask the 'CW' question on the ARRL page, I think there has to be two parts, and the second part may not be as informative as it could be unless you separate the data collection and tie it to the first.

I also think you should restrict your poll to HF. Or ask a THIRD question.

But, the real meaty data here would be to tie each of the possible second question answers to their answer of the first question. I know, that means 3 x12 possible combinations, or 36 possible hits for just those two. But I think that would be a LOT more informative than just yes/no on the CW question, or just the data you might get if you asked the question as QRP only as opposed to splitting the CW and SSB points of view.

The first part would be like an enhanced QRZ question:

Q: What do you think of the new CW requirements being fixed at 5wpm for all class licensees?

Agree with the new requirement

Disagree - it should be higher and/or tougher

Disagree - CW should be optional

And the second part would be a modification on your question

Q: What percentage of your HF operating is done using QRP? (5 W or less)

SSB      75-100%  
            50-75%  
            25-50%  
            Less than 25%  
            Never  
            I am not active SSB QRP at this time.

CW        75-100%  
            50-75%  
            25-50%  
            Less than 25%  
            Never  
            I am not active CW QRP at this time.

And the optional THIRD question...

Q: Do you operate QRP on VHF and above?

Yes - SSB



Yes - CW  
No - I do not operate QRP

----- Original Message -----

From: Hare, Ed, W1RFI <w1rfi@arrl.org>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Thursday, March 30, 2000 2:06 PM  
Subject: RE: Poll on QRZ.COM

> The poll results seem to reflect the opinions that various hams have  
shared  
> with me. About half seem to think 5 wpm is right for now (some  
because of  
> the treaty, others because they want to see some code testing), while  
about  
> half want to see it faster or eliminated altogether.  
>  
> Now, I wonder if I can talk ARRL into doing a QRP survey on its web  
page?  
> :-) Other than the obvious, any suggestions on the way to ask the  
question?  
>  
> Q: What percentage of your operating is done using QRP? (5 W or less)  
> 75-100%  
> 50-75%  
> 25-50%  
> Less than 25%  
> Never  
> I am not active at this time.  
>  
> 73 from ARRL HQ,  
> Ed Hare, W1RFI  
> ARRL Laboratory Supervisor  
> 225 Main St.  
> Newington, CT 06111  
> 860-594-0318  
> Internet: w1rfi@arrl.org  
> ARRL Web: <http://www.arrl.org/>.  
> ARRL Technical Information Service: <http://www.arrl.org/tis>.  
>  
>  
>  
> -----Original Message-----  
> From: KD1YV [mailto:kd1yv@mindspring.com]  
> Sent: Thursday, March 30, 2000 12:24 PM

> To: Low Power Amateur Radio Discussion  
> Subject: Re: Poll on QRZ.COM  
>  
>  
> Just remember that this poll and all of the other ones on QRZ and  
ARRL,  
> etc.,  
> have NO STATISTICAL ACCURACY. YOUR MILEAGE MAY VARY. FOR  
ENTERTAINMENT  
> PURPOSES ONLY. CLOSE COVER WHILE STRIKING.  
> --  
> 72/73 de Jim, KD1YV  
> All of my friends must be related. Every one has @ in his/her name.  
>  
> Ed Tanton wrote:  
>  
> > I just noticed an interesting poll on QRZ.COM (<http://www.qrz.com/>)  
. The  
> > question is: "If you could vote Yes or No for the new 5 WPM code  
rules,  
> you  
> > would vote: YES NO?" It's the results I find interesting: YES:  
49%  
> > w/2900 votes; and NO: 51% w/2998 votes. so, ~50-50 after ~6000  
votes.  
> >  
> > Ed Tanton N4XY <n4xy@arrl.net>  
> >  
> > Website: [www.qsl.net/n4xy](http://www.qsl.net/n4xy)  
> >  
> > "Do what's right. You'll please some people, and amaze everyone  
else."  
> >  
> > Mark Twain  
>  
>  
>  
>

-----  
Date: Thu, 30 Mar 2000 12:06:20 -0800  
From: Marv Fagenson <k6hcj@juno.com>  
To: qrp-l@Lehigh.edu  
Subject: [66877] Call Book Info  
Message-ID: <20000330.120846.-330399.1.k6hcj@juno.com>  
MIME-Version: 1.0

Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

What a group!!

Tnx to everyone who responded to my call book question. I had several answers and I appreciate your efforts. Now I know!

Marv Fagenson  
k6hcj@Juno.com

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 30 Mar 2000 22:10:31 +0200  
From: "Hubert Smits" <hubert.smits@wx.nl>  
To: "Richard Gurske" <rfgurske@ix.netcom.com>  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [66878] RE: Soundcard problem?  
Message-ID: <NDBBIDPLKMEGGIBAJA0JGEJGCDAA.hubert.smits@wx.nl>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Richard,

This is the URL: [http://hfradio.org/koch\\_1.html](http://hfradio.org/koch_1.html)

or try this one if you want tips on using a practising program:

<http://primera.tamu.edu/people/TAES/mgautreaux/code2.html>

Also advisable is PA3BSK ultimate morse code site which holds excellent information on morse code, practice programs etc:

<http://www.morsecode.dutch.nl/index2.html>

Furthermore there is the book mentioned in the first article "Breaking the Barrier" by Dave Finley. Amazon doesn't have it in print anymore. I found a copy at bn.com at \$14.95.

73 de Hubert, PE9HSM  
pe9hsm@amsat.org

"Frustra fit per plura quod potest fieri per pauciora  
- It is vain to do with more what can be done with less"

-----Original Message-----

From: Richard Gurske [mailto:rfgurske@ix.netcom.com]  
Sent: donderdag 30 maart 2000 0:16  
To: hubert.smits@wxs.nl  
Subject: Re: Soundcard problem?

Hubert:

I seen this post and would like the URL for the KOCH method of code practice. I have been practicing with a Fists Code Buddy and still have alittle trouble copying the code. Maybe the Koch method would help me. I tried a web search but no luck. I would appreciate any help you can supply.

Thanks 73  
Dick KF4DSL  
Fists# 7305, SOC# 257

----- Original Message -----

From: Hubert Smits <hubert.smits@wxs.nl>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, March 29, 2000 3:15 PM  
Subject: RE: Soundcard problem?

> Hello Cla,  
>  
> Yes I'm indeed using the Koch method. I started of with the 'traditional'  
> method at a club nearby. Although it did work I was making progress very  
> slowly (after 6 months I moved to 10 wpm for all needed 40 characters).  
For  
> me that was not very much satisfying, I was ahead of my fellow students,  
got  
> bored and didn't work much on it since I was ahead anyway. I realised this  
> was not going to work out and would certainly not bring me to the required  
> 15 - 20 wpms used on the HF bands. When I came across an article on the  
Koch  
> method I was sold immediately and decided to give it a try. I started with  
> 21 wpm but that turned out to fast at that point in time. I got stuck with  
> characters S and U. They sounded like a blur to me, not di-di-di and  
> di-di-dah. This is where I got help from the people mentioned in the  
message  
> you replied to. I'm now working at 19 wpm and turns out fine.

>  
> If your interested in the Koch method search for KOCH and MORSE with a  
> search engine on the web. If that fails let me know, I should have the URL  
> to a site containing information on the method somewhere.  
>  
> Software used here is Morsecat. Good program running under windows. Works  
> well for listening but has problems with connecting a key to the game or  
> paralel port. It appears that the timing routines in the programs are not  
> working in a predictable way. I exchanged some e-mails with the author on  
> this topic and he is really stuck with it. Despite this drawback I can  
> highly recommend it since it runs nicely onder windows95/98/2000.  
>  
> Oh and one more thing: to Koch or not to Koch, I did went to a period  
where  
> I wanted to throw the #\$\$%^ key as far as possible. Only after some time I  
> learned to like morse code. Expect to experience the same. Learning Morse  
> code is really different from all other learning experiences. You have to  
> practice and practice. Thinking about it there is only one more thing that  
> gets better the more I practice it ;-)  
>  
> 73 de Hubert, PE9HSM  
> pe9hsm@amsat.org  
>  
> "Frustra fit per plura quod potest fieri per pauciora  
> - It is vain to do with more what can be done with less"  
>  
>  
> -----Original Message-----  
> From: Cla KA0GKC [mailto:ka0gkc@arrl.net]  
> Sent: woensdag 29 maart 2000 21:54  
> To: hubert.smits@wxns.nl  
> Subject: Re: Soundcard problem?  
>  
>  
> Herbert,  
>  
> I missed the earlier posts. Are you using the Koch method? What software  
> are  
> you using with your soundcard? Do you find this to be working well? Let  
me  
> know because I'd like to try it!  
>  
> Thanks and 73 de Cla KA0GKC  
>  
>  
>

-----  
Date: Thu, 30 Mar 2000 15:25:41 -0500  
From: "Mike Yetzko" <myetzko@insydesw.com>  
To: <myetzko@insydesw.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@lehigh.edu>, "Ed Hare, W1RFI" <w1rfi@arrl.net>  
Subject: [66879] Re: Poll on QRZ.COM  
Message-ID: <00a101bf9a86\$6d3a5da0\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

OOPS!! I should have either changed the 'third' question to  
be SSB/FM/voice or maybe keep SSB and FM as separate  
answers!

And before someone points it out, I don't think I want to collect  
data on 'packet' as to being qrp or not.

Mike

> And the optional THIRD question...  
>  
>       Q: Do you operate QRP on VHF and above?  
>  
>               Yes - SSB  
>               Yes - CW  
>               No - I do not operate QRP

-----  
Date: Thu, 30 Mar 2000 15:34:13 -0500  
From: Ken Newman <N2CQ@citnet.com>  
To: QRP-L@lehigh.edu, njqrp@njqrp.org  
Subject: [66880] QRP Contest Calendar - April 2000  
Message-ID: <3.0.6.32.20000330153413.00a20170@mail.citnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

QRP Contesters,

Several QRPers wanted more listings beyond just QRP contests.  
This gives more states or countries if needed in the log so....

You got it!

If you find any incorrect or missed listings let me know. Thanks!

And of course, don't miss the monthly Spartan Sprint  
on the first Monday of each month. (Tue 0100z)

72 de Ken - N2CQ@ARRL.NET

~~~~~

QRP CONTEST CALENDAR  
April 2000

~~~~~

SP DX Contest (Phone/CW)

Apr 1 - 1500z to Apr 2 - 1500z

Rules: [http://dendro.sggw.waw.pl/sp5zcc/spdxc/rules\\_en.htm](http://dendro.sggw.waw.pl/sp5zcc/spdxc/rules_en.htm)

~~~~~

EA RTTY Contest (Digital)

Apr 1 - 1600z to Apr 2 - 1600z

Rules: <http://www.sk3bg.se/contest/eartty.htm>

~~~~~

ARS Spartan Sprint (CW) ... QRP Contest!!

Apr 4 - 0100z to 0300z

Rules: [http://www.natworld.com/ars/pages/spartan\\_sprints/ss\\_rules.html](http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html)

~~~~~

QRP ARCI Spring QSO Party (CW) .....QRP Contest!!!

Apr 8 -1200z to Apr 9 2400z

Rules: <http://personal.palouse.net/rfoltz/arci/arcitst.htm>

~~~~~

The TARA PSK31 Rumble (Digital) ... QRP Category

Apr 15 0000z to 2400z

Rules: <http://www.qsl.net/wm2u/rumble.html>

~~~~~  
Estonian (ES) Open HF Championship (CW/SSB) (80 & 40) ...QRP Category

Apr 15 - 0500z to 0959z

Rules: <http://www.sk3bg.se/contest/esopen.htm>

~~~~~  
YU DX Contest (CW/SSB)

Apr 15 - 1200z to Apr 16 - 1200

Rules: <http://www.sk3bg.se/contest/yudx.htm>

~~~~~  
Coast To Coast QSO Party (CW) (FISTS)

Apr 15 - 1300z to Apr 16 - 0500z

Rules: <http://www.qsl.net/k1fff/page7.html>

~~~~~  
European Sprint (Spring) (SSB)

Apr 15 - 1500z to 1959z

Rules: [http://www.kkn.net/~i2uiy/EU\\_ru1\\_DX.html](http://www.kkn.net/~i2uiy/EU_ru1_DX.html)

~~~~~  
Michigan QSO Party (CW/SSB) ...QRP Category

Apr 15 - 1500z to Apr 16 - 0400z

Rules: <http://www.qsl.net/mrrc/mqp.html>

~~~~~  
Holyland DX Contest (Israel) (CW/SSB)



Apr 15 -1800z to Apr 16 - 1800z

Rules: <http://www.sk3bg.se/contest/holyland.htm>

~~~~~  
EA QRP Contest (CW) ...QRP Contest!!

Apr 16 - 1700z to 2000z (20 Meters)

Apr 16 - 2000z to 2300z (80 Meters)

Apr 17 - 0700z to 1300z (40 Meters)

Rules: <http://www.arrl.org/contests/months/apr.html>

~~~~~  
SP DX RTTY Contest

Apr 22 - 1200z to Apr 23 - 1200z

Rules: <http://home.sol.no/~janaalme/htmlrules/spdxrtty.html>

~~~~~  
Low Power Spring Sprint (Slovak ARA) (CW) ...QRP Category

Apr 24 - 1400z to 2000z

Rules: <http://www.arrl.org/contests/months/apr.html>

~~~~~  
QRP To The Field (CW) ...QRP Contest!!

Apr 29 - 1500z - 2000z

Rules:

<http://www.fix.net/~jparker/norcal/contest/qxpttf2000/qxpttfrules.html>

~~~~~  
Helvetia Contest (CW/SSB) (Swiss) ...QRP Category

Apr 29 - 1300z to Apr 30-1300z

Rules: <http://home.sol.no/~janaalme/htmlrules/h26.html>

~~~~~

Florida QSO Party (CW/Phone) ...QRP Category

Apr 29 - 1600z to Apr 30 - 0159z and  
Apr 30 - 1200z to 2159z

Rules: <http://www.qsl.net/fqp/rules.htm>

~~~~~

Nebraska QSO Party (CW/SSB)

Apr 29 - 1700z to Apr 30 - 1700z

Rules: <http://www.qsl.net/hdxa/neqso/neqso.htm>

~~~~~

Ontario QSO Party (CW/SSB) ... QRP Category

Apr 29 - 1800z to Apr 30 - 1800x

Rules: <http://www.odxa.on.ca/oqprules.html>

~~~~~

72 de

Ken Newman - N2CQ  
Woodbury, NJ  
N2CQ@ARRL.NET

~~~QRP Contest Calendar~~~

<http://www.njqrp.org/data/contesting.html>

~~~WQ2RP NJQRP Club Station~~~

-----

Date: Thu, 30 Mar 2000 14:36:59 -0600  
From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [66881] RE: Poll on QRZ.COM  
Message-ID: <0974781F4FC8D211A24600902727E806011B2076@saturn.rose.cc.ok.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

What about ATV? I know guys that do QRP on ATV. I used to run QRP two watts ATV in Chicago. Did pretty good too. Used an old commercial UHF FM

transmitter with a video modulator that I built up. Changed the bias on the tube to run linear. Not enough bandwidth to run color, but it was alot of fun. Used to work 60 miles or better all of the time and tropo was way out there. Anyone on the list ever do any QRP ATV?

I'm not saying that this should be part of the question, I'm just interested.

Hal

-----  
Date: Thu, 30 Mar 2000 14:59:24 -0600  
From: "DONALD G. DORN" <DDORN@CWIS.NET>  
To: LOW POWER AMATEUR RADIO DIS <QRP-L@LEHIGH.EDU>  
Subject: [66882] FS COMPUTER POQET PC PLUS  
Message-ID: <38E3C02C.72E07D71@CWIS.NET>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Looks like I'm not ever going to get around to using this. I turned in on when I first got it and it seems to work just fine. Looks like new --no dings. Comes with one ram disk, modem, serial adapter, battery pack (installed), and ac power adapter-battery charger, also copy of users manual.

65.00 shipped US

Don K5AAR  
Lake Eufaula, Ok

-----  
Date: Thu, 30 Mar 2000 16:01:49 -0500  
From: Laura Halliday <va3ldh@sympatico.ca>  
To: qrp-l@Lehigh.EDU  
Subject: [66883] FRG-7 (was: [Toronto] Freebie)  
Message-ID: <38E3C0BD.C8095F2F@sympatico.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

To be fair to those who don't necessarily read their email every day, I'll make a random drawing of the names I've received at 2000 UTC Friday. For reasons of cost and practicality I'll weight the draw in favour of local

responses, but everybody is in with a chance. I wish I had a dozen to give away - this is a receiver that many people think very highly of!

Technical digression:

The FRG-7 uses an interesting system (a Barlow-Wadley Loop) for mixing to a VHF first IF, then down to an MF second IF for the final processing. Here's how it works...

The first LO tunes 55.5 to 84.5 MHz. This mixes DC-30 MHz in 1 MHz chunks to 54.5 to 55.5 MHz.

The output of the 1st LO is also mixed with a comb of harmonics generated by a 1 MHz crystal oscillator. The receiver uses a selective amplifier to choose the comb + LO product that is at 52.5 MHz, mixing to the 2 to 3 MHz second IF. The processing from there involves an LO that tunes 2455 to 3455 kHz, for a final IF of 455 kHz.

The key to the receiver stability (outstanding, by 1970s standards) is the fact that the up- and down-conversion frequencies are generated from the same potentially drifty oscillator, but convert in opposite directions. The drift thus cancels.

The 1 MHz steps in the tuning are selected and controlled by monitoring the presence (or absence) of a mixing product at the output of the selective 52.5 MHz amplifier. This drives the LED on the front panel, familiar to FRG-7 owners.

--

Laura Halliday VA3LDH      "Laisse le vent tout emporter..."  
Grid: FN03gs                      - Foly/Viennet

-----  
Date: Thu, 30 Mar 2000 16:15:40 -0500 (EST)  
From: rxd7@po.cwru.edu (Richard A. Dell)  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [66884] Mini Quad-Thanks  
Message-ID: <v02130503b5092bd6e086@[129.22.116.87]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Thanks to the listmembers that responded with an address. I used a min-quad for a while, and while a bit tricky to tune, it worked very well on 6 & 10 meters.

73, 72

Dick, WD8ISB

>Some time ago the group mentioned that the "Mini Quad" that was made in  
>Pennsylvania was again being made some where in Canada. Does anyone know  
>their address and or website ?

>

>Thanks,

>

>Dick Dell, WD8ISB

-----  
Date: Thu, 30 Mar 2000 14:25:06 -0700  
From: Roger Hightower <n7kt@worldnet.att.net>  
To: ELECRAFT <elecraft@qth.net>, QRP-L <qrp-l@lehigh.edu>  
Subject: [66885] Keycaps and LED's  
Message-ID: <38E3C632.BF169823@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'm sending these out as quickly as I get the SASE's, and am caught up  
as of today.

It's close...I have requests for 99, and ordered 100 sets.

I have received requests and envelopes from a couple of folks who did  
\_not\_ initially respond via e-mail, as requested. I needed those  
initial responses to know how many to order. If there are any sets left,  
I'll mail them, if not I'll let you know. In any event, you're at the  
bottom of the list.

--

72.....Roger

Roger Hightower, N7KT      Mesa, AZ   K2#591    SOC #14

-----  
Date: Thu, 30 Mar 2000 13:24:25 -0800 (PST)  
From: Gary Newberry <Gdn1@rocketmail.com>  
To: qrp-l@lehigh.edu  
Subject: [66886] Re: [OT] Best way to get funds across W/VE border?  
Message-ID: <20000330212425.5638.qmail@web2901.mail.yahoo.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

I'm \*assuming\* they handle transactions in Canada and other countries and if so I'd try [www.paypal.com](http://www.paypal.com) , it's a \*FREE\* service ( they must make their money on the 'Float') and you get \$5.00 for signing up, you can pay anyone that has an e-mail address or accept payments from others from funds in their PayPal account or from their credit card. I've sold all kinds of things (really helps to clean out the closet/garage/hamshack :-)) thru mailists/newsgroups and eBay and the purchaser notifies PayPal, the money is deposited right into my account in seconds and I usually ship the item the same or next day. I then can use the 'PayPal' funds to buy other 'goodies' ( that wind up in the garage / closet :( ) or have the money transferred by check to me or wired to my bank. It eliminates the check / money order / mail waiting routine and for the purchaser (if credit card was used ) it \*may\* ?? give him some leverage with his credit card company if the seller was dishonest / didn't ship etc. Though I haven't checked out that particular aspect. I'm not connected with them and I don't get the \$5.00 referral fee as I'm registered under a different email account, I just \*like\* the service.

73 Gary K8IQ

--- K3GM <k3gm@home.com> wrote:  
> Sorry for the OT question, but I'm trying to get some  
> form of payment to a  
> friend in VE land for equipment he's selling to me. I  
> initially sent a US  
> Postal Money Order, but I didn't read the fine print, and  
> it was promptly  
> rejected by his Post Office. I don't want to send cash  
> for obvious reasons,  
> and a personal check is too slow. Is there some form of  
> International Money  
> Order, or bank money order I can use? How 'bout a  
> cashiers check, or bank  
> check? Thanks.....Tom K3GM  
>  
>  
>

---

Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

-----  
Date: Thu, 30 Mar 2000 15:31:35 -0600  
From: "DONALD G. DORN" <DDORN@CWIS.NET>  
To: LOW POWER AM RADIO DIS <QRP-L@LEHIGH.EDU>  
Subject: [66887] POQET PC PLUS  
Message-ID: <38E3C7B7.7FE882F7@CWIS.NET>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The Poqet is spoken for.  
Don K5AAR

-----  
Date: Thu, 30 Mar 2000 16:48:58 -0500 (EST)  
From: Joel Malman <malman@world.std.com>  
To: qrp-l@Lehigh.EDU  
Cc: k1qm@world.std.com  
Subject: [66888] [COMPUTER] Logging software  
Message-ID: <200003302148.QAA00806@world.std.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Folks,

I am thinking about getting a Casio Palm Pilot (pocket size computer) for schedule management, some small spread sheets and for transmitter keying and contest logging.

I have been told that 8k memory models are now under \$200 and run a limited version of Windows ('98?).

Anyone use a Palm Pilot for logging? Which logger do you use? It would seem that none of the current contest logging programs would fit in 8k RAM memory.

Any words of wisdom from the list would be helpful.

72

p.s. tried to nab VQ9P0 on 28004 this afternoon, but no luck. The pile-up was just to big.

--

/joel K1QM (K1 Queen Mary) Concord, Massachusetts  
QRP-L #337, QRP-ARCI #9305, MI-QRP #1641, SOC #42

-----  
Date: Thu, 30 Mar 2000 14:24:25 -0800  
From: Allan G Taylor <agtaylor@llnl.gov>  
To: qrp-l@lehigh.edu  
Subject: [66889] 38 Special question  
Message-ID: <38E3D419.7B9@llnl.gov>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have been examining the 38 Special documentation available on the NorCal website and have come up confused (nothing unusual about that...) Anyway, the schematic shows R11 as 2.2M, R14 as 4.7K while "The 38 SPecial Consolidated Construction Manual" also posted there has R11 as 6.8K, R14 as 2.2K. It would seem that there are two schematics out there, with different values and/or numberings of components. My interest in this Obsoleted project is only for raiding of ideas (I am interested in the dual op amp audio section as a way to soup up an SST or 40-9er, say). Does anyone with more history with these proceedings help me out of my confusion? I was still "QRO only" when the 38 Special was kitted.

I suspect this is enough off-beat that a private answer would be most appropriate.

73 from sunny CA

K7GT, Allan

--  
Allan Taylor K7GT agtaylor@llnl.gov  
DXCC 2000 Mlnm. award /QRP -- 61 since 2/22/00  
SOC #6 QRP ARCI #10146 HI/QRP #93

-----  
Date: Thu, 30 Mar 2000 17:37:19 EST  
From: K2UD@aol.com  
To: qrp-l@lehigh.edu  
Subject: [66890] Re: DANGEROUS STUFF!!!!  
Message-ID: <6c.28cf1d2.2615311f@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit



Isn't ammonium persulfate the same substance used in primers for firearm ammunition? That would definitely be dangerous stuff if struck!

72

Howard Kraus, K2UD

-----  
Date: Thu, 30 Mar 2000 16:37:04 -0600  
From: "Randall" <Firefox@Southwind.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [66891] Who has good enclosures for qrp stuff.  
Message-ID: <00c601bf9a98\$79cdcc20\$a75986d1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I am looking for a source of good quality enclosures to put QRP and other electronic equipment in.  
Any suggestions ?  
thanks

-----  
Date: Thu, 30 Mar 2000 22:15:43 +0200  
From: "Hubert Smits" <hubert.smits@wxs.nl>  
To: "Richard Gurske" <rfgurske@ix.netcom.com>  
Cc: <qrp-l@Lehigh.EDU>  
Subject: [66892] RE: Soundcard problem?  
Message-ID: <NDBBIDPLKMEGGIBAJAJOEJJCDAA.hubert.smits@wxs.nl>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Richard,

The page is accessible via [http://hfradio.org/koch\\_1.html](http://hfradio.org/koch_1.html) from here on you get links to related pages. One of these holds tips on using SuperMorse (or any other program) with the Koch method. The book mentioned on the web site "Breaking the Barrier" by Dave Finley is no longer available via Amazon. I found a copy at BN.COM @ \$14.95. It is still in the mail so I can't tell you

about the contents.

Success with your attempts and if I can help you again then ask again.

73 de Hubert, PE9HSM  
pe9hsm@amsat.org

"Frustra fit per plura quod potest fieri per pauciora  
- It is vain to do with more what can be done with less"

-----Original Message-----

From: Richard Gurske [mailto:rfgurske@ix.netcom.com]  
Sent: donderdag 30 maart 2000 0:16  
To: hubert.smits@wxs.nl  
Subject: Re: Soundcard problem?

Hubert:

I seen this post and would like the URL for the KOCH method of code practice. I have been practicing with a Fists Code Buddy and still have alittle trouble copying the code. Maybe the Koch method would help me. I tried a web search but no luck. I would appreciate any help you can supply.

Thanks 73  
Dick KF4DSL  
Fists# 7305, SOC# 257

----- Original Message -----

From: Hubert Smits <hubert.smits@wxs.nl>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Wednesday, March 29, 2000 3:15 PM  
Subject: RE: Soundcard problem?

> Hello Cla,

>

> Yes I'm indeed using the Koch method. I started of with the 'traditional'  
> method at a club nearby. Although it did work I was making progress very  
> slowly (after 6 months I moved to 10 wpm for all needed 40 characters).

For

> me that was not very much satisfying, I was ahead of my fellow students,  
got

> bored and didn't work much on it since I was ahead anyway. I realised this  
> was not going to work out and would certainly not bring me to the required  
> 15 - 20 wpms used on the HF bands. When I came across an article on the

Koch

> method I was sold immediately and decided to give it a try. I started with  
> 21 wpm but that turned out to fast at that point in time. I got stuck with  
> characters S and U. They sounded like a blur to me, not di-di-di and  
> di-di-dah. This is where I got help from the people mentioned in the  
message

> you replied to. I'm now working at 19 wpm and turns out fine.

>

> If your interested in the Koch method search for KOCH and MORSE with a  
> search engine on the web. If that fails let me know, I should have the URL  
> to a site containing information on the method somewhere.

>

> Software used here is Morsecat. Good program running under windows. Works  
> well for listening but has problems with connecting a key to the game or  
> paralel port. It appears that the timing routines in the programs are not  
> working in a predictable way. I exchanged some e-mails with the author on  
> this topic and he is really stuck with it. Despite this drawback I can  
> highly recommend it since it runs nicely onder windows95/98/2000.

>

> Oh and one more thing: to Koch or not to Koch, I did went to a period  
where

> I wanted to throw the #\$\$^ key as far as possible. Only after some time I  
> learned to like morse code. Expect to experience the same. Learning Morse  
> code is really different from all other learning experiences. You have to  
> practice and practice. Thinking about it there is only one more thing that  
> gets better the more I practice it ;-)

>

> 73 de Hubert, PE9HSM

> pe9hsm@amsat.org

>

> "Frustra fit per plura quod potest fieri per pauciora

> - It is vain to do with more what can be done with less"

>

>

> -----Original Message-----

> From: Cla KA0GKC [mailto:ka0gkc@arrl.net]

> Sent: woensdag 29 maart 2000 21:54

> To: hubert.smits@wxs.nl

> Subject: Re: Soundcard problem?

>

>

> Herbert,

>

> I missed the earlier posts. Are you using the Koch method? What software  
> are

> you using with your soundcard? Do you find this to be working well? Let  
me

> know because I'd like to try it!

>  
> Thanks and 73 de Cla KA0GKC  
>  
>  
>

-----  
Date: Thu, 30 Mar 2000 17:53:30 -0500  
From: "George Heron N2APB" <n2apb@erols.com>  
To: "QRP-L" <qrp-l@lehigh.edu>, <n0rc@qsl.net>  
Subject: [66893] Re: Post Atlanticon Building Plans  
Message-ID: <00d901bf9a9a\$c65280c0\$e6ca9cce@ire.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Doing the NE-4040 transceiver (aka the "NN1G rig") would indeed be a good rig to homebrew Manhattan-style ... actually so much so, that Chuck Adams K7QO has selected this rig (with NN1G permission) to be the subject of his next feature article installment in QRP Homebrewer!

So, depending on how Chuck's road to recovery progresses, he should have his expert Manhattan-style construction guidance, photos and everything else in the Spring issue of QHB. I know that he was working on it before he left for his vacation at the Dallas Hospital <smile>, and if we know him, he's working through it right now in his head.

Stay tuned for more from Chuck on this. But in the interim, by all means, get geared up for doing the 4040!

73, George N2APB  
n2apb@amsat.org

----- Original Message -----  
> Combining the ideas I thought why not  
> HB Manhattan Style an existing (COTS) rig, ....  
> and have kind of settled on the NE-4040 from  
> "QRP Power".

-----  
Date: Thu, 30 Mar 2000 17:44:33 EST

From: Rick McKee <kc8aon@juno.com>  
To: fpqrp@egroups.com, qrp-1@Lehigh.EDU  
Subject: [66894] The missing Q signals by John Queen,  
=?iso-8859-1?Q?KA=D8SEY?= & Mike Colyar, K7ITL  
Message-ID: <20000330.175735.4567.3.kc8aon@juno.com>

### The missing Q signals

John Queen, KA SEY & Mike Colyar, K7ITL

Some Q signals have never made it to the ARRL's official list. Here are some that may agree would be useful in appropriate situations. As with regular !Q signals, each can be a statement or a question, depending on whether a question mark follows it.

|          |                                                  |
|----------|--------------------------------------------------|
| QLF      | I am sending with my left foot.                  |
| QLF?     | Are you sending with your left foot?             |
| QRC      | Warning, rag chewer on frequency.                |
| QRC?     | Are you a rag chewer?                            |
| QOK      | Your last transmission was Okie Dokie.           |
| QOK?     | Was my last transmission OK?                     |
| QFH      | This frequency is MINE! - go elsewhere.          |
| QFH?     | Is this frequency hogged?                        |
| QBS      | It's getting deep in here.                       |
| QBS?     | Did I tell you about the one that got away?      |
| QZZ      | I fell asleep at the mike.                       |
| QZZ?     | Is that a 60Hz hum, or are you snoring?          |
| QBA      | My antenna is BIG!                               |
| QBA?     | How big is your antenna?                         |
| QHI      | I am jumping in quick to say hi, then going QRT. |
| QHI?     | Are you leaving after only one transmission?     |
| QBO      | Don't sit next to that gyu in the meeting.       |
| QBO?     | Buddy, can you spare some soap?                  |
| QNO      | I am sending through a non-standard orifice.     |
| QNO?     | Are you sending through a non-standard           |
| orifice? |                                                  |
| QCW      | I am going to whistle Morse Code on FM (or       |
| SSB)     |                                                  |
| QCW?     | Why are you whistling Morse?                     |
| QET      | Phone home.                                      |
| QET?     | Has anyone called me from another planet?        |

----- End forwarded message -----

---

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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 30 Mar 2000 17:44:42 -0600  
From: "Michael A. Newell" <wb4huc@texas.net>  
To: Firefox@Southwind.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [66895] Re: Who has good enclosures for qrp stuff.  
Message-ID: <38E3E6EA.D8EFCED8@texas.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Visit <http://www.tentec.com/tkit.htm/> and scroll  
down to the bottom of the page.

You can also visit <http://www.tentec.com> and click  
the 'cabinets and enclosures' link.

72,

--

Michael A. Newell - WB4HUC  
Austin, TX  
QRP-L 1668  
<http://wb4huc.home.texas.net>

-----  
Date: Fri, 31 Mar 2000 00:49:57 +0100  
From: "Andy GM0NWI" <Gm0nwi@tesco.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [66896] Dick, WD8ISB "Mini Quad" URL address PLEASE...!  
Message-ID: <003901bf9aa2\$a8a183c0\$a01dac3e@q1n3l2>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Dick...

Can you please share the URL info for  
this wonderful idea...

Regards  
Andy [gm0nwi@tesco.net](mailto:gm0nwi@tesco.net)  
GM0NWI

-----  
Date: Thu, 30 Mar 2000 18:53:38 EST  
From: K2UD@aol.com  
To: mgoins@usa.net  
Cc: qrp-l@lehigh.edu  
Subject: [66897] Re: possible 10 meter interference  
Message-ID: <b6.329142b.26154302@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Infra-red on 10M? Not a chance. That pertains to the range of the unit, not the frequency. Infra-red does not an RF frequency make!

72

Howard Kraus, K2UD

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End of QRP-L Digest 1776

\*\*\*\*\*  
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